



#### A COTTAGE GARDEN FOR SPRING AND FALL

On the estate of Clarence S. Hay at Newbury, N. H., is a little cottage for spring and fall occupancy. The garden that surrounds it is filled with herbaceous plants that bloom profusely both early and late. Prentice Sanger was the landscape architect

# HOUSE & GARDEN'S BOOK of GARDENS

Containing over Four Hundred Illustrations of Special Flower Types, Plans and Suggestions for Landscape Work, a Complete Gardener's Calendar of the Year's Activities, Planting and Spraying Tables, and A Portfolio of Beautiful Gardens in Varied Sections of the United States and Foreign Countries

Edited by
RICHARDSON WRIGHT

Editor of House & Carden

1921 NEW YORK CONDÉ NAST & COMPANY

# The HOUSE & GARDEN BOOKS

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House & Garden's Book of Gardens

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#### THE ROAD TO ARCADY

Any garden path is a road to Arcady. Set foot upon it, and inevitably the way leads out of this complex world into a lovelier kingdom where for towering structures you have the trees, for canyon streets the green hedge, for city noises the soothing of gentle winds and the music of birds and trickling water, for the city stench, the perfume of

blossoms. Doubly blest is the man whose road to Arcady lies down a garden path where flowers crop up between the flagstones, where sweet alyssum and petunias spill over the roadway and giant asters salute him as he passes. So it is in the garden of L. H. Laphum at New Canaan, Conn. William B. Tubby was the architect



#### THE MIRACLE WORKERS OF THE GARDEN

In the Humbling Touch of Earth Is Found the Exalting Mystery of the Garden's Gods

#### RICHARD Le GALLIENNE

WE take gardens, as we take all our mer-

cies nowadays, too lightly. Recently a friend of mine, speaking of his garden, said to me that it made him very "humble". It was one of those remarks for which one grows increasingly grateful; for humility, the only attitude by which it is possible to know anything worth knowing, has become an almost extinct species of human feeling; and I am far from sure that I can safely leave my friend's remarks entirely without commentary. So few feel like him, that for many, I fear, it will have no meaning. Of course, he meant that his garden continually brought before him, so impressively, with such fresh wonder, the miracle and the mystery of the vital, the cosmic process.

No one yet knows how or why a flower grows. We have discovered radium, and employed delicate and terrible natural forces to fearful ends; but we are as far from knowing that as ever. Still, as the present writer once had the honor of saying: "A grass-seed and a thimbleful of soil set all the sciences at nought." Still Tennyson's "flower in the cran-

nied wall" baffles all the pundits.

Unless you feel like that about your garden, you might as well have no garden. Indeed, you have no garden. You may have a dozen gardeners—but that is another

matter. As a general rule, one may say: the more gardeners, the less garden. For the real garden is born, and very little

No one has ever really loved a garden without having had at times the sense of a divine presence dwelling there, moving softly behind curtains of leaves, some busy, watchful kindness secretly at work with blade and blossom and the mounting sap, and falling suddenly silent at our first foot-fall, like a shy bird. A fancy, of course-and yet would there be anything more remarkable in the fact of certain natural processes being presided over by especially appointed spiritual guardians than there is wonder in the processes themselves? Though there be no individual accessible divinity behind the blossoming of an apple orchard, the process itself is divine, and just as mysterious as if there were.

Numen inest, said the old Roman, with proper reverence and a profound insight in the presence of such natural manifestations; and he who does not feel, as he, that deity is present "in gardens when the eve is cool" profanes the sanctuary.

AGARDEN is indeed a sanctuary of natural religion. Upon it are concentrated the power and the glory and the tenderness of natural forces. From above and below there are focused upon it the mysterious operations of sun and rain and dew, in unison with the chemic, one feels like saying the alchemic, properties of the soil itself.

The man who looks after his own garden is continually in the presence of the inspiring strangeness, the ever new surprise and thrill of the creative marvel. He takes a bulb in his hand, dry and crackling and to all appearances dead as an Egyptian mummy. where within its tiny cerements hides the spark of life; though, should he unfold one layer after the other, he would seek in vain for its presence. So the man of science seeks for the soul of man in his body, and not finding it, pronounces it non-existent. Who would be-lieve that this dry and dusty relic when buried an inch or two in dark earth, seemingly as unvital as itself, mere inert matter to all appearance, shall be met there in the darkness with warm awakening energies, immediately taking it into their care; that it and the earth alike are as ready to catch fire as phosphorus itself, vividly responsive one to the other; and that, after a while, thus subterraneously nourished, fed from above also by stealing rains and dews, and hotly kissed through its mask of earth by that mighty shining which has traveled millions of miles through ethereal space, to assist at this miniature marvel, it shall jet up into the April morning, a curiously carved cone of waxen petals pouring fragrance—a hyacinth. A hyacinth—yes! But how much more to the man who has watched while it thus came into

I sometimes wish that Adam—the first gardener, as Hamlet's gravedigger remarked—had left the creation without names; for names have a curious way of robbing things of their proper value, and particularly of their first strangeness. Something arrests us either by its beauty or its unfamiliarity, and we immediately ask what it is. While no one tells us, we remain curious, but from the moment we hear its name, its interest for us diminishes: it takes its place in the category of familiar things, though, of course, we know no more about it than ever. So one says "a hyacinfh" or "a rose" thoughtlessly, as though we knew all about them, almost indeed as though we could make them ourselves had we a mind to. Yet the names of flowers have often, as in

this case of the hyacinth, an association value which gives a lift to the imagination. It certainly adds to its magic for us to recall that this is the flower that the Greeks believed to have sprung from the grave of Hyacinthus, the beautiful youth accidentally killed by Apollo as they played at quoits together. Still one can read "Alas! Alas!" in Greek upon its petals. So long ago the flowers we love were in the world; and such associations, though they are but subsidiary to the natural inspiration of gardens, are poignant remembrances of lovely half-forgotten things, romantic lives long since ended, beautiful faces that once bent over these very flowers, or those poets who have brought them the added enchantment of their songs.

EVEN though you utterly neglect your garden, it will flame in a glory of weeds; for, first and last, it is a mystic piece of God's earth, potential with all those magical energies that of their very strength bring forth beauty. Every foot of it conceals buried treasures of untold value—gold and silver, ivory and myrrh, fretted imageries, carved chalices, and a hoard of fragrant things.



#### DAFFODILS

Gray is the city as a gray beard Jew. Steel, paper, shoes, a thousand sordid things, Crowd the dull windows, fill the humming hives, Busy the piteous-eager heart of men.

Yet on a day when light the wafting wind Teased the grim giant with a hint of spring, There between buildings broke the sunlight through, And lo! an arched dark window was ablaze With the gold splendor of the daflodils!

Who said the day of miracles was done? I saw with my two eyes, and felt my heart Go fluting "April!" all the wintry day. And I shall never pass that way again Without remembrance of the swift surprise—Here in the sun the jonquils' spendthrift gold, At the street's end the blue, resounding sea!

-Sara Hamilton Birchall

## BUILDING THE HARDY BORDER

From These Selections of Herbaceous Perennials One Can Have
A Gorgeous Display Each Year

O scheme of garden building is at once so effective and so easily maintained as a hardy border. Perennial plants need seldom .to be renewed; in fact, it sooner becomes necessary to find an outlet for the overflow than to set in new plants. This overflow, if one has started out with choice named varieties, has a commercial value. A fuller satisfaction, however, is discovered when one finds that there are enough plants to give away. For isn't at least half the joy of possession the pleasure of sharing your abundance with another? Moreover, in the herbaceous planting there is scarcely a dull moment. Growth starts with the earliest hint of warm weather and continues almost until snow flies. During the first few weeks we have the interest of rapidly developing plants. From the time the earliest flowers come, in April or May, there is a succession of bloom until

The garden lover looks forward to these recurring seasons as she anticipates the visit of an old friend. Association comes to hover about them, as about old books and the old haunts that one frequents. For the more prosaic there is the scientific interest in comparing the growth and performance of one year with another. By all means keep a note book.

The most effective location for such a planting is, probably, along the far edge of the lawn, where it will be viewed mainly from the house. Such a border may be about the foundations of the house, though this is of all locations the least desirable as it will not be seen to advantage from the windows of the house. A backyard is a

good situation, particularly if one can run the border about the yard and can spare ground for a bit of green, be it never so small, in the center

There is nothing more charming than a walk between two borders, the double border of English gardens, a feature of endless possibilities which we in America neglect almost



The beautiful, creamy, white-flowered dwarf phlox Tapis Blanc is without a rival for its place in the very front of the border

altogether. This type of border, however, allows a different planting than the more usual single border, for in this case less thought need be given to its effectiveness at a distance. One might almost characterize the planting as more intimate, for it is to be seen from near at hand, and the interest is more likely to be busied with single specimens than with the broad

effect of the whole. It is this broad effect that should always be kept in mind when planning and executing the single border.

The first principle to remember is that the best results are always to be obtained by simple and broad treatment. That it is better to paint from a simple palette, with a minimum of color mixing, is a maxim equally good for the painter and gardener. In either case, we are making a picture. The problem of the border is complicated by the fact that it is a series of pictures we must plan for.

Growth in a border starts, of course, simultaneously with that of the grass and the leaves on the trees. This early growth shows a variety of light, delicate greens and reddish browns that not only are beautiful in themselves, but have great diversity in habit of growth and texture and shape of leaf.

The earliest flowering plant is the lupin. Now the lupin (Polyphyllus, the perennial variety) comes in white, pink and blue. The white is a flower of exquisite purity and grace. The blue, however, runs to reddish tones and the usual pink lupin rather suggests lavender. There is a recently introduced lupin of a purer pink that, in



Inspector Elpel, a late flowering phiox, blooms well into September, when the fall asters begin. This view and the others are of the garden of John L. Rea, at Plattsburgh, N. Y., who also contributes the text



While the late peonies show the last of their glory, the delphiniums raise their heads ready to bloom

combination with the white, forms a beautiful group. The lupin is a fair sized plant, with perhaps a dozen stalks 2' to 3' tall.

By the time the lupins begin to fade the iris will come into flower. Only the so-called self-colored sorts seem sufficiently assertive to be suitable for a planting of this nature.

Mrs. H. Darwin is a most satisfactory white, of rather dwarf habit. Madame Chereau is the tall and stately variety with somewhat elongated white flowers with blue laced edges. Pallida Dalmatica is a large, luxuriantly growing kind, whose extra sized flowers at a little distance give the effect of a clear, delicate blue. Her Majesty, with flowers almost as large but borne on shorter stems, is soft pink with crimson markings.

We have to be especially careful in placing our irises unless we are willing to cut them off before their time, because the oriental poppies never wait for the iris season to be quite over. These with their brilliant black and scarlet coloring and great size are likely to prove rather upsetting to one's preconceived ideas of balance and harmony, unless they are carefully curbed. A good showing can be had from Rose Queen, Perry's White, Nancy, Goliath, Royal Scarlet, Beauty of Livermore.

By the first of June—in many localities,

By the first of June—in many localities, somewhat earlier—the peony plants will have altogether lost the mahogany color of their earliest stage and will have developed into picturesque mounds of deep, glossy green. Twelve standard sorts of moderate price, which give great variety in type and color of bloom and will furnish the longest possible season—from three to four weeks—are Umbellata Rosea, Rubens, Festiva Maxima, Mons. Jules Élie, Courrone d'Or, Faust, Delicatissima, Marie Jacquin, Felix Crousse, Mons. Hyppolyte Dellille, Henri Murger, Marie Lemoine.

By the third week of June, when the later peonies are in flower, the delphiniums will be reaching a considerable height, and the long, graceful spires of buds will begin to show color. These with the Madonna lilics and the early white phloxes always follow hard on the peonies. The delphinium, or perennial larkspur, ranges in color from white through countless enchanting combinations of blue and lavender to deep blue and purple. The scarlet and so-called yellow sorts need not be considered here. For a variety of dependable blues, plant—Bleu Tendre, Rev. E. Lascelles, Hermosa, The Alake, Porcelaine Sceptre, Dusky Monarch, Mr. K. T. Caron, Progression, Perfection, King of Delphiniums, Lorenzo de Medici, Mrs. Brunton, Andrew Carnegie, Francis F. Fox, Corry, Moerheimi.

As the larkspur and lily time passes, the gorgeous phlox era comes—the former perhaps the most ethereal, the latter certainly the most brilliant phase of the garden year. Visualize these in bloom—Miss Lingard, Tapis Blanc, Frau Anton Buchner, Comte von Hochberg, Europa, Fernand Cortez, Inspector Elpel, G. A. Strohlein.

The beautiful, big, creamy white flowered dwarf, Tapis Blanc, is without a rival for the very front of the border. It grows from 1' to 1½' tall and bears large heads of large flowers. It blooms earlier than the other phloxes in this later group, usually beginning to flower just as the early white, Miss Lingard, is by its best. Tapis Blanc forms a bridge between the two seasons. Frau Anton Buchner, universally acknowledged the very best white phlox, bears equally large flowers in larger but somewhat looser heads, and grows very tall, often over 3'. This white is used for its own sake and to separate the more brilliant sorts. These brilliant colors are most effective used in considerable quantities, each by itself. Of the colored varieties, one might start with six plants each of the following:

Cortez-a rich crimson, early; G. A. Stroh-

lein—a wonderful salmon with a red eye; Europa—white with a clear red eye; Comte Von Hochberg—a deep crimson, one of the darkest colored sorts; Inspector Elpel—a rosy pink with a reddish eye, very late.

The phloxes, with their wealth of color and bloom, carry us well into September, when the various fall asters begin to flower.

The number of these Michaelmas daisies is a revelation to most people, who still suppose the lavenders of our own New England asters the only colors to be found among them. There are, however, not only these lavenders and many more, but pinks in almost pure tones, white, light and deep blue, crimson, and purple. Many of the newer varieties grow to be larger plants and bear larger flowers than those most of us know. For a good autumn showing, try St. Egwin, Beauté parfaite, Glory of Colwall, Ryecroft Purple, Ryecroft Pink, Fairfield, Mrs. S. T. Wright, Wm. Marshall, Bertha Cubitt, Mrs. Rayner, Hilda Morris, Feltham Blue.

In building a new border, start out with these rules firmly in mind:

1. Select a location, if possible, in full view from the summer living room.

2. Carefully measure the space to be planted, and make, to a convenient scale, a detailed plan showing the location of every plant to be set. This not only makes the actual planting much easier, but makes it possible to get along without the unsightly and perishable labels, for if in doubt as to a name one merely has to consult the plan.

3. In arranging the colors try to get beautiful combinations, remembering always that simplicity is a chief aid to that end. A half-dozen plants each of three or four colors are far better than the same number of plants, each in a different color.

4. Whenever practicable, obtain the best quality of plants, in named varieties.

5. Give a reasonable amount of labor and fertilizer in preparing the ground.



#### AMONG THE FIRST TO BLOOM

The Crocus, An Early Venturer Into the Garden

MARIAN C, COFFIN Landscape Architect

In some parts of this crocus border the bulbs are planted thick, line upon line, with the cups so near together that they are no longer seen as individual flowers, but as long-drawn splashes of color. At these spots the tree trunks act as joils and the little patches of brown earth that do manage to show between the wide-spread chalice blooms serve to deepen the coloring of the crocuses themselves



As the first important flowers of the early spring we love the crocuses, even when only a few spring up in the grass or along the border. But how much more wonderful are they when there are hundreds of them! Sometimes they come up singly or in thinly scattered groups, perhaps only six, perhaps a dozen cups together with the stardy, dark trunks of leasess trees rising about them

#### FOUR OF THE ROSE FAMILIES

From the Hybrid Perpetuals, Teas, Hybrid Teas and Polyantha Types The Rose Lover Makes a Selection for All-Season Bloom

THERE are three principal groups with which the rose grower should familiarize himself—the Hybrid Perpetuals, made up of roses of mixed parentage but practically all of the hardy or perpetual type; the Tea rose, tea scented, which is not hardy except in the South or in California; and the Hybrid Teas, standing between these two rose extremes, being the offspring of the hardy Hybrid Perpetuals and the Teas, and having been developed toward hardiness as far as possible. Of course there are many other kinds and the fact that there are over four thousand species of the genus in Europe and Western Asia alone, will only confuse the amateur. Choice, then, should be made for season of bloom and varying quality and texture of flower.

The first roses to bloom are those of the Hybrid Perpetual class—the June roses—which begin usually about the 5th of June and continue on for a month. The Teas and Hybrid Teas begin later-about the 15th-and carry their first flower production until the last week

in July. Then they rest a bit, save for a few fugitive blooms, until about the end of August, when they start in once more and blossom until frost. The interval between the end of July and the end of August is filled in with two other classes, the Bengal and the Polyantha. The latter are clustered masses of small flowers usually and the bushes are not large.

The number of plants of each class which a rose garden should have must, of course, be determined by the size of the garden, but a fair proportion is two Hybrid Teas, one Bengal, one Polyantha and one Tea to each Hybrid Perpetual, or five Hybrid Teas to one Hybrid Per-

Of the Hybrid Perpetuals, Baron de Bonstetton, General Jacqueminot and Prince Camille de Rohan are among the deep and velvety reds. Paul Neyron, in addition to being the largest rose in the world, is free flowering, of a fine, deep rose color. Darker than this is
Marshall P. Wilder. Two good whites are
Orleans, with flowers red as geraniums
Frau Karl Druschki and Margaret Dickson. Yvonne Rabier, the baby white rambler.

Another white is Marchioness of Londonderry.

Mrs. John Laing is an abundant soft pink.
Among the Hybrid Teas, an excellent red
rose is General McArthur. Betty is good for late summer, a rare shade of coppery gold over-laid with yellow. Another wonderful yellow rose is the Duchess of Wellington. Redder than flame is Gruss an Teplitz. For pale shell pink nothing has yet excelled La France.

In the Tea Rose class, Harry Kirk should lead for the yellows, seconded by Marie Van Houtte, a paler shade edged with pink. For later summer and fall bloom William R. Smith is good, although tender and requiring care.

Of the Bengal roses, Hermosa is a popular choice and can be massed in beds. Countess de Cayla is another of this class, a coppery tone shaded with orange. The blushing little Clotilde Soupert is a tractable, densely petalled hybrid Polyantha, generally classed as white. Then there are Louise Walter, soft rose pink; Orleans, with flowers red as geraniums, and



Roses should be given a place by themselves, and, where space permits, a special bed to each family. On the estate of Charles Harding at Dedham, Mass., the queen of flowers has a regal and abundant spot—a formal garden walled in by high architectural lattice with seats and gates at the terminals of the paths. Guy Lowell, architect



#### FIFTY GOOD CLIMBING ROSES

HE notes which follow are compiled from exhaustive tests covering a period of four years. In considering the results it is well to remember that they were obtained in the latitude of New York City and would not necessarily apply in all details in other sections and under different conditions. Those roses which are marked "winter kills" were killed back to root by the unusually severe winter of 1917-18, a season considerably colder than the average in this region. The varieties noted as being hardy survived that winter and consequently may be considered highly cold-resistant. The time of blooming varies approximately six days for every fifty miles' difference in latitude. Varieties prefixed by the figure 1 are considered especially good; those marked 2 are the next choices. A wise selection of a dozen or so will result in successive blooms for nearly two months.



June 14-24

Blooms
June 1- 7

1—Miss Helyett—(wich.) Winter kills. Fauque, 1908. Large double, blush with carmine shading. Strong, good foliage.
Long season. Good stems.

May Queen—(wich.) Hardy. Conard & Jones, 1899. Delicate pink. Foliage good, weak grower. Fascinating color, with crimped petals.

Neige d'Avril—(mult.) Hardy. Small pure white flowers, profuse, semi-double. Prominent yellow stamens. Foliage fair.

June 7-14

Ghislaine de Feligonde—(mult.) Hardy. Turbot, 1916. Practically thornless. Bud orange. Flower cream when open, foliage fair. Medium growth, very long season. Purple East—(mult.) Hardy. Paul, 1901. Rosy pink with over color of mauve. Wonderful color in early morning. Semi-double, large, free. Foliage only fair.

2—Francois Guillot (wich.) Winter kills. Barbier, 1907. Double white. Free, vigorous. Foliage very good. Shaded yellow in bud. Long blooming season.

Paul's Scarlet Climber—(wich.) Hardy. Paul, 1916. Large, vivid scarlet shaded crimson. Fine large foliage. Vigorous, unusually fine color that holds well.

Silver Moon—(mult.) Winter kills. Henderson, 1910. Very large semi-double, almost 5". Pure white, yellow stamens. Buds tinged yellow, foliage unusually good. Strong, but

Silver Moon—(mult.) Winter kills. Henderson, 1910. Very large semi-double, almost 5". Pure white, yellow stamens. Buds tinged yellow, foliage unusually good. Strong, but some years fails to bloom.

1—Christine Wright—(H. P.) Hardy. Hoopes & Thomas, 1913. Rose pink tinged yellow. Good form, fragrant. Good texture. Color lasts, long period of bloom.

Zephirin Drouhin—(Hybrid Bourbon.) Hardy. Bizot, 1868.

Large single flower, wonderful silvery rose color. Petals wavy. Long season, strong bushy growth.

2—Baroness von Ittersum—(Multiflora.) Hardy. Leenders, 1910. Bright red foliage. Fairly free bloomer. Some flowers are lighter. Quite large.

August Roussel—(Macrophylla.) Hardy. Barbier, 1913.

Large flowers, semi-double. Rosy salmon. Good foliage. Shaped like H.T.; like a clear pink form of Dr. Van Fleet. Climbing Lady Ashtown—(H.T.) Hardy. Bradley, 1909.

Free for H.T. Vigorous. Best climbing H.T. Has long spring season and a few autumn flowers.

Alberic Barbier—(wich.) Winter kills. Barbier, 1900. Buds yellow, flowers cream, foliage good. Young shoots bronze. Good color until it fades.

1—Paul Noel—(wich.) Hardy. Hanne, 1913. Large double, 2"-3". Bud carmine; open, deep salmon, splashed orange. Wonderful color and foliage. Long season.

2—Elisa Robichon—(wich.) Hardy. Barbier, 1902. Delicate rose tinged yellow. Free, vigorous. Foliage very good. Chatillon Rambler—(wich.) Hardy. Barbier, 1902. Delicate rose, free, strong, good foliage. Similar in form and habit to Dorothy Perkins but a shade lighter.

Gerbe Rose—(wich.) Hardy. Large double. Clear pink, strong, good foliage.

Gerbe Rose—(wich.) Hardy. Large double. Clear pink, strong, good foliage.

1—Gardenia—(wich.) Hardy. Manda, 1899. Bud yellow, flower cream. Good foliage, vigorous, free.

2—Renee Danielle—(wich.) Hardy. Guillot, 1913. Deep yellow in bud, pale yellow open. Very large and double. Small, isolated clusters, very fine foliage.

Mme. August Nonin—(wich.) Hardy. Nonin, 1912. Double, mauve-rose. Vigorous, good foliage, lasts well.

2—Electra—(multiflora.) Winter kills. Veitch, 1900. Deep salmon pink heavily shaded. Foliage good. Color fades but veins become more pronounced.

2—Ida Klemm—(mult.) Half winter kills. Walter, 1907. Large double, cream. Fragrant. Good form, fine foliage, long blooming season.

double, cream: Frag. blooming season.

2—Tausendschön—(mult.) Hardy. Schmidt, 1907. Semi-double, bright pink to pure white. Color deepens in dull weather and with age. Foliage fair.

Blooms

Tuly 1-7

Blush Rambler—(mult.) Hardy. B. R. Cant, 1903. Clear rose, free, good growth. Good, fast color, center turns paler when old.

2—Klondyke—(wich.) Winter kills. G. Paul, 1911. Yellow bud, flowers paler. Vigorous, free, foliage good.

1.—Source d'Or—(wich.) Hardy. Turbot, 1912. Buds bright yellow; open, pale yellow, large. Very faintly tinged blush. Vigorous, foliage very good.

Sanders' White—(wich.) Hardy. Sanders, 1912. Double, pure white, very free. Long season, glossy foliage, vigorous.

vigorous.

2—Dr. F. W. Van Fleet—(wich.) Half winter kills. Henderson, 1908. Flesh pink. Good form, foliage very good. Vig-

1908. Plesh pink. Good form, foliage very good. Vigororous, fragrant.

1--American Pillar—(mult.) Half winter kills. Conard & Jones, 1909. Rose pink, light centers, good foliage and growth. Flowers freely and regularly.

1--Marie Lovett—(wich.) Half winter kills. Large, double, pure wither; fine shape, vigorous. Foliage very good. Fragrant, large, waxy petals prettily curled. Beautiful bud of H.T.

large, waxy petals prettily curled. Beautiful bud of H.T. shape.

Debutante—(wich.) Hardy. Walsh, 1901. Soft light pink. Variable. Vigorous, foliage good. Very large clusters. Adelaide Moulle—(wich.) Hardy. Barbier, 1902. Coppery salmon, double. Foliage good, strong. Small but pretty flowers in clusters. Fades in bright weather.

2—Evergreen Gem—(wich.) Hardy. Manda, 1899. Cream, free, fragrant. Vigorous, foliage very good. Faint blush center when open.

1—Hiawatha—(wich.) Hardy. Walsh, 1904. Single. Rich scarlet, vigorous, free. Foliage good.

Sicile—(mult.) Hardy.
Coronation—(wich.) Hardy. Turner, 1912. Vivid crimson-scarlet, lighter stripes. Very free. Large strusses. Strong, foliage good.

scarret, inginer stripes, very free. Large strusses. Strong, foliage good.
Francois Juranville—(wich.) Winter kills. Barbier, 1906.
Salmon, large, double. Foliage good.
Jean Grim—(wich.) Hardy. Girin, 1910. Salmon, double, free, vigorous, foliage good.

Sodenja—(wich.) Hardy. Weigand, 1911. Very bright scarlet, with lighter edges. Free, strong, good foliage.

Ernst Grandpierre—(wich.) Hardy. Weigand, 1900. Double white, small. Free, vigorous, good foliage. Cleaner white than White Dorothy.

1—Dorothy Demison—(wich.) Hardy. Dickson, 1907. Creamy pink. Vigorous, good foliage. Very double. Fast color, deeper in dull weather. Habit like D. Perkins. Synon, Lady Godiva.

2—Excelsa—(wich.) Hardy. Walsh, 1900. Crimson, Vigorous, free, good foliage. Brighter than crimson rambler and has decidedly better foliage.

2—Evangeline—(wich.) Hardy. Walsh, 1907. Single, blush, pretty shape. Free, vigorous, flowers large, color variable.

1—Dorothy Perkins—(wfch.) Hardy. Perkins, 1901. Rose pink. Double, vigorous, free. Foliage good.

White Dorothy—(wich.) Hardy. Paul Cant, 1908. The white counterpart of Dorothy Perkins.

1—Snowdrift—(wich.) Hardy. 1910. Pure white double flowers, large clusters. Very free, vigorous growth. Good foliage.

foliage,

Honage.
 Gruss an Freundorf—(wich.) Hardy. Praskac, 1913. Deep crimson, light center. Semi-double, vigorous, exceptionally fine color.
 Leontine Gervais—(wich.) Winter kills. Barbier, 1903. Nasturtium red, free, good growth, foliage and color.
 Mrs. M. H. Walsh—(wich.) Hardy. Walsh, 1912. Pure white, small, free, vigorous. Foliage good, flowers very evenly distributed. Grows very tall.

#### A DOZEN GOOD ANNUALS

Certain Flowers Whose Colors and Characteristics Qualify Them as a Basis for Starting an Annual Garden

THERE are, of course, no twelve—or fifteen, or twenty—"best" annuals. Local conditions, individual preferences, a thousand and one varying circumstances, must be taken into consideration. If we are going to set any definite limit to our list, let us call our selection merely "good" in a general sort of way, and let it go at that.

The flowers which follow are chosen with the assumption that they are to be grown under average normal conditions. Briefly, these consist of moderately rich, well-drained soil; plenty of sunlight and fresh air circulation; and freedom from the encroaching roots of trees and shrubs. Granted these, here is a basic list on which you can start an annual garden of small size.

Cosmos. Its colors are red, pink and white—great saucer-shaped blossoms borne 4' to 6' high above a mass of feathery foliage. For mass effects far into the autumn, after most of the other flowers have succumbed to the chill nights, it is unexcelled. An excellent flower for both garden effects and cutting.

nights, it is unexcelled. An excellent flower for both garden effects and cutting.

Asters. Not the busy, perennial kinds with the purple and gold flowers, but the Giant Comet, King, Royal and Imperial sorts. They reach a height of 1' to 3', and furnish abundant bloom in a wide variety of colors during late summer and autumn. These asters are good not only for a variety of garden effects, but

also for cutting and display in the house.

Alyssum. Free-flowering and quick-growing, a splendid bedding and edging plant which begins to bloom early in the spring and continues throughout the season. The flowers are white, profuse, and low growing; together with the foliage, they form a thick mat a few inches thick

Snapdragons. Good for border planting and as cut flowers. Long blooming season and exquisite flowers in practically every color except blue. They grow from 1' to 3' high and if given winter protection will bloom a second season. Some of the giant types are especially good for planting at the back of the bed.

Some of the giant types are especially good for planting at the back of the bed.

Candytuft. One can hardly imagine this charming hardy flower. For edgings and bedding effects it is especially good, and it is well adapted to cutting. The blossoms are white, pink or red, borne 1' to 2' high in large heads or spikes.

Forget-Me-Not. Of all garden flowers, this comes as close as any to being a tradition. There is no need of describing it here—it's too well known.

Annual Larkspur. Not to be confused with the perennial sort. It comes in all colors except yellow, and is good for garden masses as well as cutting. Grows 2' to 3' high and closely resembles the hardy larkspur in appearance. It is a splendid flower in all respects.

Petunias. Brilliancy and wealth of blossoms, as well as marked success even under unfavorable conditions, characterize petunias. They come in all colors except yellow, grow from 1' to  $1\frac{1}{2}$ ' high, and are good for color masses and bedding effects. Salpiglossis. Also called Velvet Flower and

Salpiglossis. Also called Velvet Flower and Painted Tongue. All colors, I' to 2' high, desirable especially for garden effects and cutting for the house.

Phlox. An old favorite, better today than ever. All colors except blue, can be used as a cut flower as well as for color masses in the garden. Grows about 1' high. Not to be confused with the hardy perennial varieties.

garden. Grows about 1 lings. Not to be confused with the hardy perennial varieties. Eschscholtzia or California Poppy. These flowers, like forget-me-nots, scarcely need description. They are so showy and free-flowering that they are particularly adapted to color masses in the house as well as outdoors. 1' to 2' high, in all colors except blue.

Sweet Peas. The sweet pea of today is a far superior flower to that of a dozen or more years ago. All the old colors are in it, and many new ones. The Spencer type is the best; many of its varieties have beautifully frilled and fluted edges on their petals. To yield the maximum returns, sweet peas should be grown in a very richly manured trench prepared to a depth of 2', as their roots demand a great deal of nourishment.



Annuals may be planted in beds by themselves, a bed or portion of a bed to one variety, or they may be used in the perennial border to give color and flower interest when the herbaceous plants are not so rich in bloom

## PEONIES FOR BEGINNER AND COLLECTOR

Selections That Will Make An Ample Foundation For A Brilliant Display Each Spring

THE garden without peonies is a contradiction in terms; it simply isn't, can't be a garden. For the miracle of the peonies is a yearly refreshment of soul and a delight to the eye that knows no equal.

The last iris are cut. The late pink and yellow cottage tulips are gone. The border becomes a mass of billowy green-the glistening, metallic green of the peony leaves, the gay green of iris blades, the soft fuzzy greens of fox-gloves and larkspurs, the dainty green of the growing phloxes, the stiff, cold, forbidding lily stalks. Then the miracle slowly but surely takes place—the peonies begin to bloom!

It can't be described. One's vocabulary simply won't set down that picture. All one can say to the gardener who has no peonies, "Go without that pair of new shoes, argue your wife out of that new hat, but plant peonies this fall!" Enough for a start -say twelve-will cost you less than

a pair of shoes at current prices, and for the price of a lady's hat you can amaze the town.

Peonies are among the easiest plants in the garden to care for and no conjurer's art is required to make them grow. Begin with twelve this fall and order new types every year. Meanwhile, lest this text becomes an incoherent rhapsody, let us make some peony lists. These may not be perfect selections, but they are sufficient for a beginning. Or the gardener may easily procure the catalog of a specialist and choose his own varieties from those described therein.

An inexpensive list would consist of the

following: Boule de Neigemilk-white guards, center flecked with crimson, early mid-season; Couronne d'Or-pure white, yellow stamens, tipped carmine, late; Duc de Wellington-white guards, sulphur cen-ter, fragrant, late; Duchess d'Orleans— deep pink, salmon center, fragrant, midseason; La Coquette -light pink, rose white collar, fragrant, mid-season; Louis Van Houtte—deep carmine rose, fra-grant, late; Mme. Calot -pale hydrangea pink, fragrant, early; Delicatissima — pale lilac rose, mid-season; Emile Lemoine-red with silver tip, fragrant, late; Dr. Bretouneau-pale lilac rose, center tipped cream-white, fra-





grant, early mid-season; Comte de Paris-guards and collar violet rose, white-crimson crown, fragrant, midseason; Princess Beatrice—guards and crown light violet rose, collar white, fragrant, mid-season.

Should the gardener desire a collection of the rarer varieties he might select the following. It represents a good selection of French and English types, with one American-Excelsior:

James Kelway-rose-white changing to milk-white, early mid-season; Excelsior-violet-purple, fragrant, early; Mireille-milk-white, center petals edged dark crimson, fragrant, very late; Livingstone—pale lilac-rose with silver tips, central petals flecked carmine; Simoune Chevalier—pale lilac-rose, collar cream-white, early; La Tendresse—milk-white guards, center flecked with crimson, early; Marguerite Gerard—very pale hydrangea-pink, fading to white, late; Princess Maud-lilac-white guards, center amber-white, late; Albert Crousse-rose-white, flecked crimson,

fragrant, late; Souvenir de l'Exposition, d'Bordeaux-bluish violet-red, mid-season; Mme. Emile Lemoine—milk-white, mid-season; Festiva Maxima—white with center marked crimson.

The Japanese and single types are often preferred by peony lovers because they have a very distinct beauty of their own. In developing the peony layout of a garden it is always advisable to try a few singles at least. They play the same rôle in relation to the ordinary peony types that single roses do to the

Hybrid Teas and Hybrid Perpetual roses; they are the Polyanthas of the peony

family.
The following selection comes from English and Japanese

Jupiter—rosy magenta, medium tall, early; Geraldine deep carmine-violet, mid-season; Lemon Queen-pure white with cushion of pale vellow petals; George Alexander—deep maroon; The Moorpurple-garnet, early: Gypsy-dark rose. mid-season; Cathedral —blush, center petals creamy; Albiflora, The Bride—pure white, a tall and free grower; Apple Blossom blush-yellow in center petals; Crystal Queen—pure white; Austin Chamberlain — deep amaranth-red, early; Dragon's Headpetals pale rose striped dark crimson.



The peony bed in blossom is a place of striking beauty. Here is Couronne d'Or, pure white with a ring of yellow stamens around a central tuft of petals tipped with carmine

#### FALL PLANTED BULBS BLOOM NEXT YEAR to

Long Lived and Dependable, the Hardy Bulbs Need Little or No Care, But Continue Sending Up Their Showy Blossoms Season After Season

I N proportion to the effort expended, no other flowers are so effective as bulbs. They need only to be tucked in the ground in the autumn and given a slight protection of litter to repay one the following spring by a prodigality of blossoms. As the bulbs contain their own plant food they will blossom, for the first season at least, on very poor soil. They may be had in every color, and for practically every season, and are equally desirable for both outdoor and indoor decoration. One who desires a gorgeous display of color may plant thousands of the inexpensive species, or the collector may have his cultured taste gratified at greater cost.

When placed in direct competition with the showy tulips and daffodils, some of the more unusual bulbs are eclipsed. For these there may be reserved a sunny corner, possibly by the entrance where they will attract greater notice, and create an intimacy which would be denied them in the plan of a larger garden. They will also thrive better if the tops are allowed to die undisturbed instead of being removed to make way for annuals, as is necessary in conspicuous places.

Another distinct use for bulbs is in formal bedding. The day has gone by when our ideal of beauty was a fancifully shaped bed carved in the middle of the lawn and filled with a red and yellow mixture. However, a well-designed parterre has its appropriate place, preferably the terrace next the house, or perhaps the entire space at the rear of a small city lot.

A very different kind of bulb planting is that of naturalizing in colonies or drifts. Since their beauty consists in the massing of large quantities together, usually any mixture of kinds is to be avoided. In this case the bulbs are allowed to multiply undisturbed year after year. They succeed best

A BORDER OF MINIATURE BULBS

PLANTS
1. Forgs of bulbs 10 plants, 3 apart, 2'3' high.
1. Forgs of bulbs 10 plants, 3' apart, 2'3' high.
2 Fronymus radicary children evergreen evenymus. 22
plants, 2' apart, 2 years.
3. Taxus canadexist, American yew, evergreen with red bernes in July. Shade. 7 plants, 3' apart, 12" spread.
RULBS

Taxis condocuss, American yew, evergreen with red bermeen in July. Shade. 7 plants, 3 apart, 12" spread.

Galantus nivulis, snuwdrops, white, green spot, 4".6", March-April. Sun or ½ shade.

Crocus, mammoth golden yellow, 6".6", mid-March-late April, sun or ½ shade.

Scilla sibrica, Siberian squill, deep blue, 2".6", mid-March-late April, sun or ½ shade.

Franthus hyemalis, winter aconite, yellow, 3".8", March-Miscari bottypoides, var. Heavenly Blue, grape hyacinth, deep blue, 6".8", April-May, sun or ½ shade.

History of the pure white, checkered fritillary. 10".12", late April-late May, sun or shade. Leucojim verrium, snowflake, bell-shaped white flowers, green tips, 6".12", April May, ½ shade.

March Miscari bothocodium, hoop petiticost, delicate yellow, 6".8" and bubbcodium, hoop petiticost, delicate yellow, 1".2" and 1"

Camassia esculenta, camass, pur pusar onea, por ½ shade.
Monbretia crocosmaflora, monbretia, orange-scarlet, gladiolus-like flowers, 2¹, July-August.
Colchicum autumnale major, layender.
Colchicum autumnale abmim, white.
Autumn crecus, 6², September-October, ½ shade.

A TULIP GARDEN

A IULIF GARDEN

Pink, in harmonizing tones:
4. Clara Butt, pink, flushed salmon rose.
4. Edmée, vivid cherry rose, edged with
soft old rose.
6. Madama Krelage, bright lilac-rose.
edged paler rose.
7. Mattia, clear carmine rose, blue base.
7. Professor Rauwenhof, bright cherry
red, scarlet glow inside, blue base.
7. Suzon, soft buff rose, blush margin.
7. Picotec, white margined deep rose.
7. Inglescombe Pink, rosy, salmon flush.

where the grass is not too thick and is not cut too soon after the bulbs have bloomed. The cultivated soil around the bases of shrubs, or the edges of woodland in partial shade, are good places for naturalizing.

The majority of bulbs are, so to speak, children of the spring, but the lilies nod and beck the whole summer through. Some of them are expensive and die after a year or two, but the following are worthy of general use:

Lilium elegans, deep orange red, sun or half shade, 2', June and July.

Lilium candidum, madonna lily, fra-

grant, pure white, sun, 3'-5', July. Lilium Hansoni, yellow, sun or

shade, 3'-4', June and July.

Lilium tigrinum, tiger lily, orange

purple-spotted, sun or half shade, mid-July to September, 2'-5'.

Lilium speciosum, spotted Japanese lily, white, reflexed petals spotted crim-son-pink, fragrant, 2'-4', sun or shade, August-September.

Unlike most lilies, the madonna does best in full sun. It is often used in combination with larkspur. One secret of success is to cover the bulb with but a scant 2" of soil. The intense color of elegans looks best with the white of syringas. The golden yellow of Hansoni is an addition to any picture. The tiger lily looks particularly well with the porcelain blue of platycodons or early monkshood. The speciosum lilies are attractive in the garden with gypsophila or pink phlox, but are particularly suited to rhododendron soil.

The actual planting of bulbs is not a matter to be gone into hit-or-miss. Few if any of them can stand wet soil before their roots develop, so if the location is one with heavy soil it is advisable to bed each bulb in sand, making the planting hole somewhat deeper than is actually needed for the bulb itself and using the sand to fill up this difference.

White:
2. La Candeur, pure white, tinged pale rose when opening.
beliotrope when opening.
Lavender:
2. Dream, pale heliotrope with darker stripe.

Dream, pate nenotrope with darker stripe.
 Erguste, violet, flushed silvery white.
 Reverend Ewbank, lavender violet silvery gray flush, white base.
 Dark tones:
 The Sultan, maroon-black, blue base.
 King Harold, ox-blood red, purple-black base
 Zulu, velvety purple-black.

2. Reverend Embanic, lavenuer value.
2. Lork tones.
2. Lork tones.
3. Kivery gray flush, white base.
4. The Stan, maroon-black, blue base.
5. Kive Harold, ex-blood red, purple-black base.
6. Rembrandt tulips:
6. Rembrandt tulips:
7. Mylor tulips:
7. Mylor tulips:
8. Mixed varieties, striped and feathered in shades of violet, rose, maroon, and white.
8. White striped and feathered rose and four tulips:
8. Mylor tulips:
8. Striped and feathered dark brown and red on yellow ground.
9. Breeder tulips, dark rich colors, dull toned or bronze-shaded, some sweet-scented:
9. Cardinal Manning, dark rosy violet, flushed rose-brown.
1. Chestnut, real chestnut brown.
1. Parrot tulips:
8. Chestnut, real chestnut brown.
1. Parrot tulips:
8. Murille, light pink.
9. Tea Rose, saffron yellow.
8. Numbers before each name refer to the relavive time of bloom. All appear in April and May.

NTS
Tsuga canadensis, American hemlock.
Hedge, 85 plants, 2' apart, 1½' high.
Specimens outside garden, 5 plants 4'.4½'.
Spiraca Van Houtlet, 2 plants, 3'-3½' high,
Yan Houtlet's spiraca, whites, 2'-3' high,
Lemoine's deutia, white for contrast.

ly tulips:
Yellow:
\*3. Primrose Queen, primrose edged
canary.
2. Chrysolora, clear golden yellow.
Pink, in harmonizing tones:
3. Pink Beauty, vivid cherry rose, centurn ge petal striped white, yellow base.
Rose Luisante, brilliand deep rose
ink.
2. Queen of the Netherlands, soft pale
rose flushed white, yellow base.
1. Queen of Finks, deep pink, white
flush on outer petals.
4. Rose Gris-de-lin, carmine rose shaded
fawn, margin creamy white.
1. Prosperine, rosy carmine, white base
White Hawk nurse white, larce globu-

marked slate blue, striking
C. White:
2. White Hawk, pure white, large globular flower.
4. White Swan, pure white, oval flower.
May-flowering (Cottage and Darwin) tulips:
A. Yellow:
2. Bouton d'Or, deep chrome yellow, black anthers, cup-shaped flower.
1. Moonlight, luminous canary yellow, long oval flower.





A good example of tulip border planting. The plants are not too closely set, nor are they aggressively prominent in the general scheme of the surroundings

In very heavy soil the sand layer may be 3" deep, and it should extend up around the sides of the bulbs as well as beneath them. The roots will reach out through this protecting layer and reach the nourishing soil without as soon as the time for active growth arrives.

Although it is true that bulbs will grow in almost any soil, it is also a fact that they

(Right) An excellent example of bulbs used in a perennial border for early effect. Notice how their blossoms add character to the arrangement of the other plants



In certain settings, bulbs are invaluable as contrasts to the rest of the planting. Here Ouida and Rev. Ewbank tulips have been used in connection with evergreens

will do better if the earth around them is properly enriched. One of the best fertilizers is well rotted manure, thoroughly dug into and incorporated with the soil. Bone meal also is excellent. Put a handful of it on the surface above each bulb, and let the rains carry it down gradually. The use of both bone meal and manure is seldom necessary, or even advisable.

Another case of justifiable formal bedding, bearing about the same relation to front-lawn bulb stars that Georgian architecture does to houses of the jigsaw period



#### IRIS FOR ALL PLACES

From a Bewildering Array of the Bearded, Beardless and Japanese Types Almost
Any Selection Works The Miracle of Beauty

ROWING nothing but iris is one of the great garden temptations that flower-lovers have to resist. So hardy is this group, so prolific in bloom, so grateful for a little attention that one is apt to overload on iris. And yet, one can never have too much of them. Perhaps the only way to resist this temptation is to give in to it!

Save for a few types, the iris appreciates a fairly dry, sunny spot. Its rhyzomes, lying close to the surface or partly through it, appreciate the sun on their backs. As the iris multiplies rapidly it should be divided every third year, preferably in the autumn. Do not crowd it too closely in the border, and if you would have it do its best, see that it receives abundant sunlight. These simple requests seem about all the iris has to make. The gardener has merely to select colors and types to suit her own particular preferences.

The range from which she can choose is almost as bewildering as the variety of peonies. Pick up the nearest catalog to hand. Of new types—82. The Germanica number 187, with 35 varied species and intermediates. There are 27 of the dwarf bearded and 24 of the beardless type, with 46 Japanese iris. Over 400 distinct kinds in one catalog, each with an individual beauty. How then is the beginning

gardener to make her selection wisely, with an eye to sufficient variety?

First locate the place or spaces that can be given to iris. Then visualize the colors that are desired. After that, except one be specializing in iris, there is nothing to do but wade in blindly and choose according to color, height and general family grouping.

The first great family is the Germanica, under which are classed many subdivisions. They bloom in May, range in color from rich yellows, soft blues, purples, clarets and bronzes to pure white, with every possible combination of these colors. Many are fragrant, and all have prominent beards. They range in size, but for general purposes the tall bearded sorts give the widest range for choice. The dwarf bearded or Pumila species are best used in the front of taller plantings. They flower from the end of March to the end of May, when the taller varieties take up the iris story and carry it into the summer.

The second great family is the beardless. Under this group are classed the moisture-loving types, two of which, the water flag and European yellow flag, can be grown partially in water. This class appreciates a soil kept moist by constant cultivation and containing abundant richness.

Finally there is the Japanese or Iris Kaempferi, a type that deserves even more attention than it is getting today. Their flowers are often 10" across and borne on stalks 3' high. They also should be fall planted, given a mellow soil, plenty of moisture during the flowering period and a dry dust mulch to prevent too rapid evaporation. They are at their best in a sunny situation, and should not be frequently disturbed.

For a general collection of the Germanica types, one that gives a good variety of colors, the beginner couldn't go wrong on: Wyomissing, a creamy white suffused with soft rose; Fro, a deep gold; Lohengrin, pink; Princess Victoria Louise, primrose yellow and reddish purple; Mithras, a light yellow and wine red; Her Majesty, rose pink and bright crimson; Pfanenauge, olive gold and bluish plum; Rhein Nixe, white and violet blue; Spectabilis, purple; Bridesmaid, lavender and white; and Dr. Bernice, coppery bronze and velvet crimson.

In the Japanese iris class space permits the telection of only six, but these are well worth trying: Crane's Feathers, white; Mandarin. lavender and white; Rosy Dawn, purplish rose; Starry Heavens, dark blue with yellow blotches; Geisha, soft purplish rose finely veined; White Waterfall, double white.



Iris can either stand alone or be given a shrubbery background. They appreciate a warm spot, fairly dry, except the Japanese types which prefer moisture, and the water flag and European yellow flag, which can be planted in water

## DAHLIAS-PERENNIAL and PERMANENTLY POPULAR

A Short Course in Culture; Including Preparation of the Soil, Planting, Care of the Plants Through the Growing Season, Storing for Winter, etc.

YEAR after year the dahlia plods along, adding new friends and holding the old. New and better introductions each season keep interest at a high pitch among dahlia devotees and create inspiration for more recent

One thing that makes the dahlia so popular with the masses is its absolute dependability. A mechanical expert once said about the engine of a popular automobile, "You can over-heat it, boil it over, flood it with oil or neglect to oil it, and it will still run." Paraphrased, the

run." Paraphrased, the same is true of dahlias. You are always certain of returns, no matter how neglectful or abusive you may be in your treatment of the plants. Of course, the results are always commensurate with the treatment accorded, but this one trait of yielding dividends in spite of all obstacles or neglect is this flower's greatest asset for most of us.

We may thank Mexico for the dahlia. The flowers when first introduced were all single, but after a few years under cultivation in European gardens a double variety unexpectedly appeared.

Since that time various types have been introduced, and there are now forms to suit the most critical, ranging from the little pompoms or buttons

to the large, loose, peony flowered types and the cactus sorts. There are three distinct methods of starting dahlias: from roots, cuttings and seeds. The first is the most common method employed because it is by far the easiest; cuttings are used extensively in increasing the stock of new and desirable varieties, and are

the best for commercial purposes;

seeds are used in the fascinating work of developing new varieties. This last is extremely interesting work. The flowers can be cross-fertilized by artificial means, though the great majority of dahlia growers allow the bees to perform this task for them. In this case, flowers that are to be crossed are planted in close proximity to each other. The results, of course, are problematical, as we do not actually know which or how many kinds of pollen have been deposited by the bees. But one may be sure of interesting developments.



Dahlias like room. Three feet is the minimum distance apart each way; four feet is better



Cross-fertilizing, with its resultant development of new varieties, is extremely interesting work



Divide the roots in the spring rather than in the fall— for best results



should be firmed

d o w n
about the

Small quantities of dahlia roots can be stored in a barrel for the winter, with dry sand or sawdust

# PLANTINGS FOR THE

HOUSE FOUNDATION

FOUNDATION planting is essential to the completed appearance of a house and should be put in as soon as the building is finished. A new home without an effective planting is almost as incomplete as the interior without the draperies or the pictures on the Neither is absolutely necessary for physical comfort, but both are needed for complete mental enjoyment.

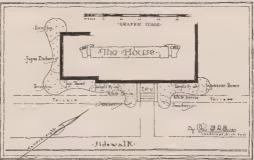
The principles underlying this or any other type of good landscape planting are not com-plicated. In the first place, simplicity is of paramount importance. The reason so many places are spoiled is attributable to a desire to have every kind of plant advertised, which naturally results in a botanical collection

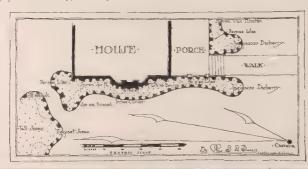
rather than a landscape garden.

There must be variety and harmony in the shrub planting. Varieties should be selected which blend easily together to form the general mass effect. The form of the planting, or the contour of the shrubs, must be carefully considered. Variety in this respect is secured by setting taller growing kinds at the corners of the house and flanking the entrances. The other spaces may then be filled in with somewhat lower growing sorts, and the taller or accent shrubs faced with lower plants like Japanese barberry, dwarf spireas and deutzias.



The great aim of founda-tion planting is to tie the house to its site. Here only six kinds of skrubs have been used to obtain the desired effect. White kerria and snowberry flank the simple Colonial entrance





Straight, hedge-like ef-fects should be avoided in foundation planting. The plan at the left, and the photograph of its ac-tual planting below, em-body irregularities which should exist. C. S. Le-Sure, landscape architect

Shrubs should be so selected that the planting will have general yearround beauty. There should be good flower value in spring and early summer, attractive summer foliage, brilliant autumn leaves, colored barks and fruits for fall and winter. A list of good shrubs, together with the distances apart at which they should be planted, is as follows:

Tall shrubs: white kerria,  $3\frac{1}{2}$ ; Aralia pentaphylla, 3'; Spiraea van Houttei, 3½; Regel's privet, 3; English privet, 3; Persian lilac, 4'-5'. Low shrubs: Japanese barberry, 2'-Low shrubs: Japanese barberry, 2-2½'; snowberry, 2'; Indian currant, 2'; spirea Anthony Waterer, 2'; Peutzia gracilis, 2'; Spiraea callosa alba, 2'; and Stephanandra flexu-osa, 2'.

The shrubs should be planted in thoroughly prepared and fertilized

beds of pleasing outline, long, smooth curves being the best, as indicated in the plans. The distance apart to plant varies with the different species. The spaded beds should be kept cultivated during the growing season until the mass occupies the entire area.

Autumn is the generally recognized season for deciduous shrub planting, since bushes set then become thoroughly established before any demands are made upon them by the growing season. But if they are planted in the spring as soon as the ground can be worked, there is no excuse for failure.





Good architecture always takes into account the existing features of the site, and if those features happen to be noble trees, then half the beauty of the finished picture is already accomplished. At times it is even advisable to change the plans of a house allogether rather than destroy the trees

# TREES AND THE HOUSE

How Trees
Make The Setting



The house illustrating this point is a dignified interpretation of Southern Colonial, a type that requires the immediate presence of large trees and the approach of broad lawns. It is the residence of Dr. Havold Springer, at Centerville, near Wilmington, Delaware. Brown & Whiteside, architects

#### PLANTING DECIDUOUS TREES AND SHRUBS

General Principles of Arrangement and Specific Details of Varieties, Combinations and Groupings

OR an immediate effect under trying con-FOR an immediate effect under trying conditions of soil, exposure and climate, deciduous plants are to be preferred to evergreens. In summer, they furnish luxuriant masses of green flowers, and fragrance; in autumn brilliant coloring and fruits; nor are they devoid of interest in winter, for vari-colored twigs and persistent fruits give as much cheer as the slower growing and doubly expensive conifers. The choice of deciduous material for winter effect is of more importance than is ordinarily supposed, because the texture of the twigs, whether coarse like the Physocarpus or fine and glossy like the Spiræa Van Houttei, will make a vast difference in the aspect, particularly if it is impracticable to mingle evergreens with them.

Having decided upon deciduous planting as the solution of a particular problem, the choice lies between trees and shrubs. The former are planted for shade, in avenues, as street trees, or in groups on the lawn; for the beauty of their flowers or foliage; for a utilitarian purpose like fruits or nuts; to blot out an unpleasant outlook; or to form accents or high points in massed shrubbery. Sometimes they can be used effectively as isolated "specimens", but this should be attempted cautiously.

#### Shrub Arrangements

Shrubs should be used in masses, though occasional specimens are appropriate, such as the lilacs flanking the entrance gate or the syringa at the house corner. In planting for mass effect two main types of arrangement are to be considered:

There is the suburban place where the grass is clipped and consequently a definite bed line is required, and the shrubs present an unbroken line of green at one with the grass. Such planting needs very careful arrangement, due regard being paid to height, form, and texture of the mass, keeping the idea of bloom, fruit, or other items of individual interest subordinate to the effect as a whole. Of course, spotting of specimens about the lawn is to be avoided. It is desirable to maintain open stretches interspersed with occasional trees, and to screen the boundaries and service portions.

to screen the boundaries and service portions. However, mere barrenness should not be mistaken for apparent extent. The inner margin of massed shrubs should be so varied in its contour that it shall half reveal, half conceal the ravishing glimpses which compel one to explore and classify the outlook spiritually; whereas a uniform border would actually make the place appear smaller because the entire vista would be perspected at a glance.

In planning such a border it is necessary to draw a plan showing the shapes of the masses on the ground, and an elevation showing the heights or sky line. As a rule, the greatest thickness on the plan will have a correspondingly greater height in the elevation. Avoid monotony of form in plan and elevation alike. Pointed accents, picturesque Japanese forms, and low spreading types may give variety to the softly rounded masses. In many places

PLANTING LIST FOR SUBURBAN PLACE
ELIZABETH LEONARD STRANG, Landscape Architect

TREES

1. Betula populifolia, 11 plants, groups
2\*\*3' apart. Gray birch, small tree
useful for effect of immediate height. 4\*\*6'
2. Acer Ginnala, 3 plants, speciments
stems and fruit.

3. Solis pentandra, 6 plants, 4" apart.
Laurel leaved wiltow, small tree, and strain strains and fruit.
Laurel leaved wiltow, small tree, and solid strains and strains. 3\*\*4

3. Solis pentandra, 6 plants, 4" apart.
Cornelan cherry, very early yellow
flower, red fruit. "Architection of the strains of the strain

these masses are high to shut out undesirable outlooks, in other parts low to frame pleasant views. It is not necessary that each part of the border shall be graded down in three heights, tall, medium and short, as is sometimes advocated. This tends to stiffness, but it is decidedly important that all leggy or ungainly plants shall be faced with smaller shrubs whose foliage grows closely down to the ground. Finally, having thus carefully selected and arranged the plants according to form, something attractive should be included for each season of the year, from the pussy willows and Cornus mas of early spring to the witch hazel of late autumn or the golden barked willows and hawthorne berries of winter.

The second type of massed shrubbery planting to be considered is on the country place where a high degree of polish is neither neces sary nor desirable. This affords a delightful opportunity of creating informal woodsy plantations of mingled trees and shrubs. If properly done it need not be limited to wild sites, but may be introduced in suburban or large city places. However, it requires greater art in its execution than the first type, since the average gardener in his zeal to have everything tidy, spoils the hoped-for informality by sharp edges of turf and too much clipping. In this kind of planting the trees are set close together as they are found growing in nature, even though to do so hinders their best individual development. There is no attempt to have an unbroken wall of foliage, but the effect is more mixed, twiggy, and open, with deep shadows and leafy undergrowth. No definite bed line is desirable, but this merging of turf with shrubbery is always a difficult problem to handle, since it entails endless labor in keeping grass and weeds away from the base of the shrubs. In the real country the grass growing long will not look out of place, but in places where greater neatness is desirable, wild violets will luxuriantly clothe the bare soil, and quite choke out all undesirable undergrowth.

#### Formal Uses

Still a third way of using shrubs or small trees is in an architectural way in the formal garden. A close hedge of Lombardy poplars 15' high may stand across the end as a screen, while at the sides are luxuriant green masses of honeysuckle and syringa, pruned back to encourage a dense growth. In front of the poplars the fine textured Stephanandra and Spirea Van Houttei contribute to the garden's frame of verdure, while the service entrances are almost entirely concealed by arching privet. The flowering trees used as accents could be pink crabs or cherries, standard lilacs or snowballs, or specimen white dogwoods. The beds are edged by a low clipped hedge of Japanese barberry, with higher accents at the corners of Spiræa Van Houttei. Both of these shrubs are very amenable to clipping. The former is much used in regions where box is not hardy, and where an evergreen edging is too expensive or slow growing.



(Left) Barberry is one of the best low hedg-ing shrubs, es-pecially for the borders of paths and driveways. Its persistent scarlet berries are a winter as-set

For an evergreen hedge or wind-break, arborvitae is without a superior. It remains splendidly green throughout the year, and may be sheared

(Below) Buck-thorn deserves far more atten-tion than it has received in this country. It is hardy, tall grow-ing, and dense when properly pruned. During the summer the great white heads of the hydrangeas make a splend.d showing along a driveway THE ART OF HEDGING

Another flowering hedge of great worth where formality is not required can be made of multiflora roses. Various colors can be selected, the whites and pinks being especially effective

Finally, there is the ubiquitous privet which, despite the frequency with which it is used, is the best for many situations. Some of the newer forms are more hardy than the commonly used California variety



Where the space is large, as in a sun-room or conservatory, effective use can be made of ivy on wall lattices of various sorts. The necessary pots and other soil containers can be decorative ad juncts in themselves if well selected



The wall fountain and tiny pool add immensely to the sunroom where their use is possible and fitting. Besides permitting the grow ing of aquatic plants, the water itself will help keep the air moist for the other flowers

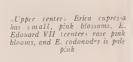
The
GARDEN
INSIDE
the HOUSE



Erica australis is one of the varieties of heather which assume a definitely tree like form, though still in minature



The flowers of Acacia Drummondii are in dense, drooping spikes of a pale lemon-yellow color, from 1" to 2" long



(Below) A white English heath which is attaining popularity in this country. Compact form and small, densely massed flowers characterize it



MINIATURE SHRUBS for INDOOR BLOOM

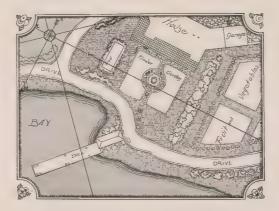
Under Proper Conditions They Are Both Odd and Ornamental





#### THE LANDSCAPE DESIGN

Showing the Use of Color, Plans, Paths, Steps, Arbors, Statuary and The Other Accessories of Garden Enrichment





#### A STUDY IN GARDEN TEXTURES

Nature is generous to the gardens of Bar Harbor. However hot the day, evening at way brings a cool dew to refresh the plants and assure sturds growth. Mossure blows in from the sea, giving life to the trees and green to the lawn. This accounts for some of the rich growth in the garden of Mrs. John

S. Kennedy, a spot that affords a pleasant study in garden textures. Here is the velvet of a rich, deep lawn, here the endless play of light and shade among the phlox, delphining and marguerites. Above the wall Lombardy poplars weeep eloquently and the turfed alley leads gently toward the pergola in the distance

#### PLANNING GARDENS OF ONE COLOR

The Principles of Color Variations, Contrasts and Harmonies Applied to Gardens of Blue, Red and Yellow

WHEN we speak of a garden being of one color we mean that one color predominates, and that such flowers as have contrasting and harmonious tones are used with it to give the predominant color greater prominence. This may be interpreted in several ways—a yellow garden in spring, a blue garden in midsummer and a red garden in the autumn. Or, if the owner's penchant for one color is very decided, the plants can be so selected as to carry that color through from spring to au-

tumn. The color variations are infinite. Here we can discuss only gardens of blue, red and yellow.

To be effective, the flowers for a blue garden must be of a true blue color, entirely free from tones verging on lavender and violet. Inasmuch as blue is a receding color more of it must be used than is necessary in the case of strong, advancing colors like scarlet and yellow, and the effect will be weak unless employed in masses sufficiently large to overcome this tendency.

Because a garden of one color is always uninteresting, there should be added to the blue at each season a little deep, royal purple of a shade that reveals no hint of red or magenta and whose velvety richness almost equals the contrast value of black. Such a purple combined with pure sky blue achieves dazzling results. To intensify the blue in the foregoing contrast, introduce some pale yellow and creamy white. The deeper the blue, the more intense the vellow.

Accordingly the pale blue of anchusa or flax looks best with the straw color of Iris flavescens, and the deep cobalt of Veronica with the intense orange of the California poppy. It is necessary to bear in mind, however, that these contrasting tones must at all times be kept strictly subordinate

to the particular blue with which they are used.

In making the plan for the blue, or any other color garden, it is impossible to forecast the results to a nicety; but if the contrast proves too strong when the garden is in bloom, it is easy to reduce the tone by sufficient blossoms to secure the proper effect.

to secure the proper effect.

The location of the various plants will depend on their height and the form of the plant themselves. For example, spikes of gladiolus beside soft masses of gypsophila; larkspur in

large round masses in the center of the beds where they may dominate during their period of bloom; asters around the boundaries where they may grow inconspicuously in the fore and mid parts of the season. An early flowering plant should have a correspondingly late one in front of it, which will hide the vacant space when the former dies.

In order to test the distribution of color and bloom for each season, lay pieces of tracing paper over the plan, one piece for each season.

and trace in color the masses that would be in bloom at that particular time.

These same general principles apply to any kind of color garden. The one great rule to remember is that the colors must be strong and bold and undiluted.

For a time the American gardeners had a flair for what they called pastel shades—colors diluted by white or hues diluted by black, resulting in general effects of soft pink and pale blue and mauve. These gardens were restful, but one tired of them. In the majority of cases the garden of bright, intense effects is more desirable. In the country where everything is green, a bit of bright coloring is a relief in a monotony of verdure.

This is the justification for a red garden. Skillfully place red flowers in patches against a background of red foliage with which are mingled white flowers of fine texture, and you have real beauty. Such a garden cannot be large. The choice of white flowers to combine with the red should also be limited to those of small size and soft texture or of solitary stateliness.

The larkspurs, in a wide variety of blues, supply a dominating note during June, and well on into July

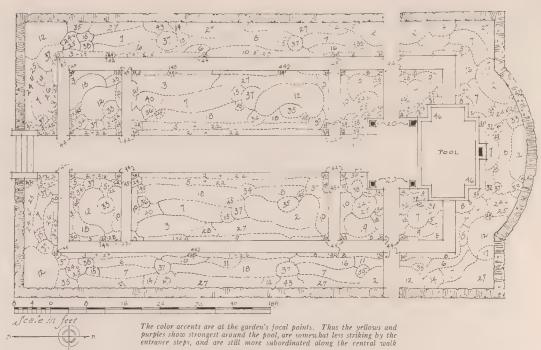


ability, it is difficult to get aquilegias of a uni form blue. But they are good for secondary positions

From early July until October the showy, light blue bells of the platycodons are one of the garden's real sights



The mertensia, or Virginia cowslip, blooms in late April and May. It is light blue, with luxuriant gray-green foliage



#### PLANTING LIST FOR A BLUE GARDEN

#### SPRING

Blue Blue Glory-of-the-snow, 3"-6", mid-March business Light blue, shading to white at center.

Scilla Sibirica: Siberian aquill, 2"-6", March and April. China blue of a greener cast than the chinocdoxa.

Muscari botryoides, var. Heavenly Blue: Grape hyacinth, 6".9", April and May. Deep blue flowers in clusters.

Puschkinia Libanotica: Striped squill, 4"-12", late April to early May. Bluish violet.

PERENNIALS
5. Mertensia Virginica; Virginia cowslip, 1'-2',
tubular, light blue with pink buds. The
luxuriant gray-green foliage dies down later
in the summer.

Anchusa Italica, var. Opal: Italian alkanet, 3',
May and June. Light blue, masses well,
very effective.

Wyesthis dissistifiera: Early forget-me-not, 6"12", late April to July.

Myosoth's palustris, var. semperforens: Everblooming forget-me-not, 6"-12". May to
September. Both are light blue, the former
growing tall and branching as the season
advances.

advances.
Polemonium reptans: Greek valerian, 6"-8",
late April to early June. Creeping border
plants of light blue, slightly lavender.
Linum perenne: Blue flax, 18", mid-May to
August. Light blue, small flower on delicate stems

Aquilegia carulea: Rocky Mountain blue columbine, 1-2', May and June. Some of the selected hybrids are also good blues.

#### SUMMER

Delphinium hybrids: Larkspur, 2'-5', June and July, Many tones of dark and light blue, combining well. The variety Belladonna is a clear light blue.

Veronica maritima: Speedwell, 2', July to September; large spikes.

tember; large spikes.
Salvia uliginosa: Sage, 4', June until frest
Light blue flowers with gray foliage. Looks
best in background, as it is somewhat

Veronica longifolia var. subsessilis: Speedwell, 3', mid-july, lasts a month. Deep cobalt blue spikes.

Eupatorium colestinum: Mist-flower, 1'-2', August to November. Dull blue, flat topped clusters resembling ageratum. Aconitum autiumsale: Monkshood, 4', August and September. Dull blue, shading to white.

\*18. Platycodon grandiflorum. Japanese beliflower,

1'-3', early July to October. Very large,
showy, wide-open bells of light blue, pinker
in tone than the larkspur. The same color
as the Campanula persicifolia, which has
outed the larkspur. The same color
though excellent alone.

19. Salvia aarsea: Pitcher's sage, 3'-4', August and
September. Slender spikes of pale blue in
great abundance, gray toligar. Bily (bulb),
on tall stakes. Should be grown in pots
or tubs; not hardy.

21. Aperatum (annual): Heads of blue flowers,
frost-resisting.
a. Little Blue Star, 5", light blue.
22. Aperatum (annual): Light blue. 2', satisfactory
in color and form.
23. Nemesia (annual): Light blue, 1'. Covered
with masses of small light blue flowers.
Other good light blue annuals are nemophita with light blue cup-shaded flowers,
and nigella or love-in-a-mist.

#### AUTUMN

Aconitum Fischeri: Monkshood, 2', September and October: Dwarf, with very large pale blue flowers.

Aconitum Wilsoni: Monkshood, 5'-6', September and October. A taller variety with the same large light blue flowers.

Aster Nova-Helisi var. John Wood, 3', September. Clear blue flowers in large clusters.

Aster Colmak: 5', September and October.

Centage light blue flowers with yellow centers acchara: Japanese gentian, 2; very late. Intense blue.

#### SPRING

BULES

Tulipa Kaufman HLDW

29. Tulipa Kaufman HLDW

pearing in May or April Flowers somewhat spreading, of creamy white with primrose yellow center, the outside striped and tinged rosy red.

30. Narcissus in pale yellow varieties.

Barri type: short cup, pale yellow perianth, orange eve.

Poetaz hybrids: short cup, in clusters on stem, pale yellow, fragrant.

Leedsii type: short or chalice cup, very pale company of the periangle of the periang

NIALS
Iris Germanica, var. flavescens: Flower de-luce, 2'.3', blooms in May. Very pale straw color.

#### SUMMER

SUMMER

SUMMER

SUMMER

33. Rose, Harrison's Yellow: 3'.5', June. Small

semi-double flowers completely covering the
bush

34. Thalicthum flozum: Meadow rue, 2'.4', July
and August. Tassels of greenish yellow.

35. Clematis recta: Herbaccous Virgin's Bower,
2'.4', early June to mid-July. Creamy
white mass, needs to be tied up.

36. Anthemis tinctoria, var. Kefusayi alba: Yellow
marguerite, 2'.3', June to October, but at
its best m July. This variety is very pale
yellow.

37. Gypzophila paniculata: Baby's Breath, 2'.3', July
and August. Mass of very small white
flowers. Double form is also good.

#### AUTUMN

38. Hardy chrysauthemum: Small golden button, 2'-3', October and November.

#### SPRING PURPLE

39. Crocus purpureus grandiflorus: Large, deep purple crocus, 3"-6", March and April.
Perennials

NNIALS of the state of the s

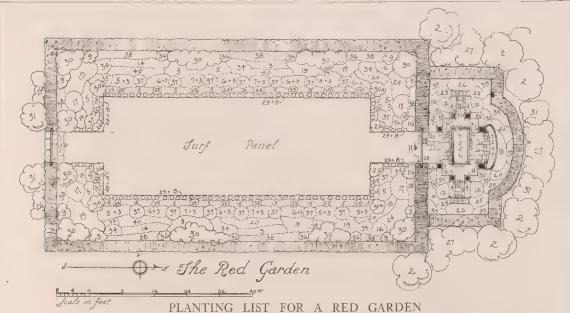
#### SUMMER

42. Clematis Jackmanni: Deep purple elematis, June and July. With the larksyur. A vine which should be trained on a trellii.
43. Phlox paniculata var. The Blue Hill: 3'-4', August and September. Intense blackish purple.
44. Purple petunias (annual): Only use a certain variety which is of deep, dark purple; none of the reddish ones.
45. Purple gladioli (annual bulbs) var. Baron Hulot: Later summer, time of bloom depending on how late it is planted.

#### AUTUMN Purple

Some bloom from violas and petunias; and gladioli if planted in early July will bloom in October and November.

\* Plants marked thus used for dominant effect.



#### SPRING

- Tsuga Canadensis, hemlock: for hedge, 3' high, 21/2' apart.
- 2.
- Rep

  Zsuga Canadensis, hemlock: for hedge, 3' high.

  Acer via part.
  Acer via part.
  Acer via part red maple: frame planting, trees.

  Larly tulps: Mais, dazzlung scarlet, darker inside, model form, first to bloom; Dusart, deep erinson, large, finely formed flower, second to bloom; Kohnoor, deep velvely crimson, purplish bloom, the darkess red.

  Teilhum erectium, wake-robini: very dark red. medium hegiti, late April to early June.

  Paeonia chicinalis, common garden peony double crimson, likes half shade, mid-May to mid-June, 2'-3'.

  Paeonia tennifelia, red. peony: large single flowers and the period of the period control of the perio

- Late tulips: Eclipse, gloving blood-red, steel blue base, probably the best for combination with old-fashion the second to bloom. Estate brighter second to bloom. Estate brighter second to bloom. Estate brighter second to bloom the second to bloom the second to bloom the second to bloom inglescombe Scarlet, vermilion red, bloom inglescombe Scarlet, vermilion red, Rhododendown hybrid, Abraham Lincoln; very dark red.
- Dicathus cruentus, dark red pink: June and July, 1'-11/2'. WHITE
- Amelanchier Canadensis, shad bush: small tree covered with small white flowers in March and April.

- 28 Sanguinaria Canadensis, blood-root: March and early April, 3"-6".
  28a. Trillium grandilorum, large flowered wakerobin: pure white, very large flower, half shade, May to early June, 6"-12".
  2. Arabis alpina, rick cress: low white, early April to late May, 6".
  3. Spirace van Houtte', Van Houtte's spiraca May, 6".
  3. Spirace van Houtte', Van Jouer, beek hut.
- 31-6. Spiraea Contonensis: May, lower bush but larger flowers than the above.
  31. Syringa culgaris, var. alba, common white lilae:
- 31. Syringa vulgaris, var. alba, common winte na.
  31. Syringa vulgaris, var. alba, common winte na.
  32. Paeconia abilitara, var. The Bride: large single, faint flush rose, golden stamens, early.
  33. Thalictrum aquitegifolium, feathered columbine: half shade, late May to mid-July, 1-3/.
  Thalictrum faurum. fear rue; geenish yellow, half shade, July-Aug., 2'-4'.

  SUMMER
  RED
  Silver Moon,

- SUMMER
  KFB
  Climbing roses: Crimsen Rambler; Silver Moon, single, large, silvery while persons beingle, large, silvery while persons beneficially persons beneficially persons and silver while argyrophylla, var. crossanguinea, cinquefoil: sun, June and July, 2:3'.

  Geum atrosanguineum storepleno, var. Mrs. Bradshaw: double deep crimson avens, June-July, 1'.

  Heuchera sanguinea, coral bells: nodding red bells on red stems, June to late September, Monarda didyna, bee balm: ragged blood-red heads, effective. Mid-June to early September, 1/4'.2'2'.

  Althaeo rosea, hollyhock: dark red selected shades. Sun, July August, 5'-8'.

  Lobbia Julgens, shining cardinal flower: larger, deeper red and more showy than the other, July-Aug., 2'-3'.

- 1. Phlor paniculata, var. Montagnard: deep bloodred, July to October, 3'-4'.
  20. Lobelia cordinatio, cardial flower: August to
  21. Lycoris amguines, blood-red amaryllis: sun,
  July-Aug., 1'-3'.
  23. Gladioli, red varieties of pure color: Princess
  Orange, Governor Hauley, Cherry King.
  24. Dahlias: J. H. Jackson, cactus, dark crimson
  macoon; Le Grant, decorative, velvety red
  shaded maroon.
- Clematis recta, herbaceous virgin's bower: sun, carly June to mid-July, 2\*53'.

  Iris Kaemfyeri, Jopanese iris, var. Gould Bound: white with yellow markings, sun, June-July, 2\*\*3'.

  Galium Molluge, mist flower: half shade, June to late August, 1\*\*5'.

  Cryssel august, 1\*\*5'.

  Cryssel august, 2\*\*3'.

  August, 2\*\*3'.

- RED

  Hardy chrysanthemums: Black Douglas, fringed petals, dark mahogany brown, medium early; Brown Bessie, small button, dark brownish maroon; Regal Beauty, deep wine red.
- Berberis Thunbergii, Japanese barberry: planted for foliage and fruit effect of brilliant red.
- WHITE

  Boltonia asteroides, asterdike boltonia: sun,
  late Aqugus to mid-October, 2'-8':

  Anemona Japonica, Japanese anemone: sun or
  build shade late.
  September to early Noember 2'-2'5'.

  Hardy chrysanthenum, Queen of the Whites:
  large flowered, medium to late.

As for the quality of the dominant color itself, there can, of course, be no mixture of orange, scarlet or crimson tones. What is desired is a real, true red, a glowing ruby or blood color.

If white is the peacemaker of the garden, vellow would seem to be the life of it. The deep golden tones, by their very intensity, seem to be in larger quantities than they really are. Accordingly, in the garden of various colors they contribute most to the general effect when they are used as accents.

At certain seasons, however, we do not object to an entire garden of vivid gold. In spring a garden of crocus, forsythia and daffodils forms a gorgeous though transitory picture; and in the autumn, when sombre tones predominate in the landscape, great masses of heleniums or chrysanthemums create an instant response in the beholder. In midsummer the eye wearies of hot, intense colors, and yellow should then be subordinated.

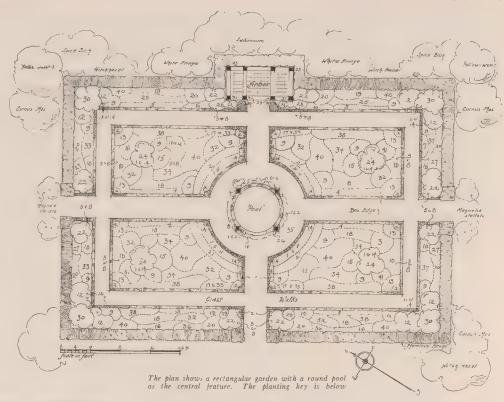
There is a type of yellow garden that could, consistently and agreeably, be carried out for the entire season. It is composed of pale primrose-yellow and cream-white, and is selected with the greatest care lest too strong a note obtrude on the softness of the general tone. To avoid weakness or insipidity there is added a dash of the darkest red imaginable-a velvety black maroon with no hint of crimson.

By its very nature the color scheme suggests great breadth of treatment in the arrangement of the flowers in large and effective masses. This effect is achieved by the comparative shortness of the list and the frank, simple design of the garden, which admirably lends itself to well-balanced masses of bloom. A cheerful warmth is its dominant characteristic; an effect accentuated by the dark brown garden house, the russet paths of tan bark or gravel. the rich green of the high encircling hemlock hedge and the dwarf box which frames the beds. Outside the hedge are masses of shrubs

whose effect is that of light and grace itself.

The year begins in February with Japanese witch-hazel; in March this is followed by sprays of spice bush, Cornus mas in April, and in late autumn by the native witch-hazel. All of these have delicate blossoms of light yellow, which in May become very striking with the aid of laburnum or golden chain. With a certain percentage of white-for instance, in April the Magnolia stellata, the fringe-like creamy yellow wood and the white fringe-tree in late spring—we evolve a contrasting background.

Inside the hedge certain shrubs and roses pay royal tribute. At the outer corners are strong masses of strawberry shrub whose cinnamon-scented brown flowers are an effective foil to the snowy white cascades of Spiraea Van Houttei. All the entrances are sentinelled with Harrison's yellow rose, an old-fashioned favorite, in early June a shower of fragrant semidouble blooms of sulphur yellow; while in front of them are some dark red varieties.



#### PLANTING LIST FOR A YELLOW AND MAROON GARDEN

- EARLY SPRING—APRIL AND MAY
  YELLOW—PERENKIALS
  Primula sulgaris: English priurose; large solitary
  flowers of palest yellow.
  Primula teris subpriba; giant yellow polyanthus;
  yery large flowers in clusters, pale yellow,
  golden eye.
  Alyssim saratile, var. Silver Queen: Gold Dust,
  a very light yellow variety.
  YELLOW—BULBS
  Hyacinth, Yellow Hammer; creamy yellow.
  Hyacinth, Primrose Perfection: soft primrose yellow.
  Narcissus, or daffodils

- - low. Narcissus, or daffodils

    Leedai: chalice and short-cupped varieties,
    white, cream or pale primrose (best ones
    are starred).

    \*Mrs. Langtry: pure white cup, perianth
    primrose.
    - primrose.
      Fairy Queen: perianth and cup pure white.
      Katherine Spurrell: perianth white, cup soft
      yellow.
      Ariadne: perianth ivory-white, cup amberyellow.
      Ariadne: perianth pure white, cup fluted,
      edgel primrose.
      Duchess of Westminster: perianth pure
      white, cup soft canary yellow with darker
      edge.

    - edge. White Trumpet: trumpet as long as perianth segments. Lady Audrey: perianth milk white, cup prim-
    - Grace Darling; twisted perianth of white, frumpet cream.

      "Mrs. Thompson: perianth creamy white; trumpet yellow. Madame de Graaf: perianth pure white, trumpet primrose.]
- Madiane with the property of t
- MAROON—PERENHALS
  Chierathus Chieri English wallflower: dark\*st
  red, almost black.
  Trillium crectum: three-leaved night-shade; very
  dark red.
  MAROON—BULBS
- Early tulips
  Apollo: dull blood red, changing to claret, edged amber-brown; very large flower with speed base.

#### SPRING-LATE MAY AND EARLY JUNE

- YELLOW-PERRNILLS

  9. Iris Germanica, var. flarescens: German iris, light straw color.

  10. Peony, Delia: deep sulphur yellow with green spot, double.

#### YELLOW BULBS

- May-flowering tulips
  Moonlight: soft but luminous canary-yellow,
  long, oval flowers
  Flava: creamy canary-yellow, large flower on
  stiff stem.
  Miss Willmott: soft primrose-yellow, darker
- with age.
  White Shrubs for Contrast
  Spirace Van Houtlei: Van Houtle's spirea; drooping masses of pure white flowers. Excellent background for May flowering tulips
  Maroon—Perennials
- 13. Peony
  Mrs Key: single, dark blackish red, golden
  stamens.
  Rubra triumphans: double, dark red, somewhat
  bluer in tone.
  MAROON BULBS
- 14. May-Flowering Tuips
  André Doria: velvety reddish maroon, shading
  to blood-red.
  King Harofd: deep ox-blood red, purple-black
  base.

#### MIDSUMMER-JUNE AND EARLY JULY

- Yellow-Perennials
  Yucca filamentosa: Adam's Needle; tall, creamyers striking.
  Spiraa filipendula flore pleno: double flowered
  dropwort, cream-white; tall, delicate clus-
- Hemerocallis flava: early lemon lily.

  Aquilegia chrysantha: late-flowering lemon-yellow
  columbine
  columbine
- columbine

  19. Digitalis grandiflora: late foxglove pale yellow lined brown.

  20. Althra roseu: hollyhocks, frilled pale yellow and salmon tints.

- salmon tints.

  YELLOW SHRUBS AND ROSES.

  21. Polyantha rose: George Elgar: clear coppery yellow, blooming from June until frost rose: Harrison's Yellow, double, sulphur yellow, profuse fragrant flowers.

  Climbing roses
  Goldlinch: soft yellow, changing to lemon and Gardenia: yellow, vigorous, Wichuraiana type.

  24. Cytisus labursum, var. Adami: golden chain. half standards, 2/5-3-7 high, long pendent tassels of yellow.
  - MAROON-PERENNIALS
- Dianthus barbatus: Sweet William, darkest red only.
   Papaver orientale, var. Mahony: dark crimson maroon poppy, shaded mahogany.
   Althea rosea: hollybocks, double maroon.

- MAROON SHRUBS, ROSES AND VINES
- Hybrid Tea roses
  Richmond: brilliant crimson-scarlet; well-shaped
  buds.

- 28. Hybrid Tea roses
  Richmond: brilliant crimson-scarlet; well-shaped
  buds.
  Gruss an Teplitz: scarlet, shading crimson.
  29. Hybrid Perpetual rose: General Jacqueminot;
  scarlet crimson.
  30. Calycanthus fordus: Carolina allspice: chocolatesize shrub.
  31. Akebia quinata: good climber, delicate foliage;
  violet-brown flowers with spicy odor. Medium
  31. Akebia quinata: good climber, delicate foliage;
  violet-brown flowers with cinnamon odor.
  LATE SUMMER—JULY AND AUGUST
  YELLOW PERENNIALS
  32. Anthems intertoria var. alba: chamomile, a variety
  paler than the type; creamy white with yellow greamy with the properties of the content of t

#### AUTUMN-SEPTEMBER TO NOVEMBER

- AUTUMN—SEPTEMBER TO NOVEMBER YLLIOW-PERENNIALS
  Hardy chrysantheniums, September-flowering.
  Ralph Curtis: creamy-white.
  Wells Primrose: yellow.
  Large flowered Ashbury: white suffused sulphury straw white.
  Clements required a Japanese Virgin's Bower; a verennial vine covered with mass of small white flowers in autumn.
  MABOON—PERENNIALS
  Helenium autumnale, var. Riverton Gem: yellow, changing to red.
  Helenium autumnale, var. Superbum rubrum:
  Hardy chrysantheniums
  Brown Bessie: small bronze button
  Black Douglas: dark red, large loose flowers.

#### ROCK GARDENS AND THEIR ALLIES

Suggestions for Creating a Garden of Alpine Plants, with Those Variations of It, the Bog Garden and the Naturalistic Pool

TODAY the pleas-ure which is derived from the cultivation of small Alpine plants is fully recognized and enjoyed by the owner of the medium and small sized property. The rock garden-or Alpine garden, as it is sometimes called—has become a popular fea-ture of modern landscaping and is no longer found only on large estates and public parks. It is a place informal outline, closely akin to the wild garden, and is developed along naturalistic lines, aiming toward the picturesque in landscape design and avoiding straight lines and set arrangements.

There are two types of rock gardens: the natural and the artificial. In the first. the rocks have been placed by nature; and in the second they have been arranged



A remarkably successful development of the rock garden. The site is well A remarkany successful aevelopment of the rock garden. The site is well chosen for its seclusion and freedom from cold winds. In the left exter can be seen the entrance to a grotto. An abundance of plants gives the garden that sense of color and delicate growth so necessary to set off the rugged lines of the rocks and put them into their proper place in the general scheme. John Handrahan, landscape architect

The old by man. quarry, the rocky bank, and the rocky knoll and valley all lend themselves to the development of the natural rock garden. Suggestions for the construction and care of an artificial rock garden, as well as planting lists of re-liable Alpine flowers, evergreens and ferns for the natural rock garden, are given on the following pages. From them a selection can be made for any situation.

The true rock garden should be treated as an isolated feature of a property. The site chosen for this type of garden, when circumstances permit, should be away from and out of sight of anything formal. No hard and fast rule for the choice of a site can be given, for it obviously depends upon what sites are available. While a

#### PLANT MATERIAL for the ROCKY BANK

Abronia latifolia (sand verbena): trailing, lemon yellow, blooms July.

Achillea tomeniosa (wooly yarrow): 1', bright yellow, blooms July-October.

Adonis anurensis (pheasant's eye): 8", yellow, blooms

March
Adonis pyrenaica: 1', deep yellow, blooms May-July.
Adonis pyrenaics: 1', yellow, blooms April-May.
Aethionema coridifolium (aethionema): 6", rosy-pink,
blooms June-July.
Aethionema grandiforum: 12", rosy purple, blooms
June.

June.
Ajuga genevensis (bugle-weed): 8", bright blue, blooms
May-June.
Ajuga reptans: 6", blue, blooms May-June.
Alyssum alpestre (madwort): 3", golden yellow, blooms

Alyssum alpestre (madwort): 3", golden yellow, blooms May-Julanum: 3", yellow, blooms June-July. Alyssum snaatila compactium (rock madwort): 1', yellow, blooms April-May. Androsace lanuginoss (rock jasmine): trailing, rose, blooms May-October. Aquilegia alpinos suberba (columbine): 2', blue and white, blooms May-June. Aquilegia canadensis: 2', red and yellow, blooms May-June.

june. Aquilegia chrysantha: 3', yellow, blooms June-August, Aquilegia coerulea: 18", blue, blooms May-June. Aquilegia flavellata: 1', pure white, blooms May-June Aquilegia rivea grandiflora: 2', white, blooms May-

Aquilegia Skinneri: 2', greenish yellow, blooms May-

June.

Aquilegia vulgaris alba fl. pl.: 2'-3', white, blooms
May-June.

Arabis albida (rock cress): 5"-9", pure white, blooms
April-May.

Armeria alpina (thrift): 6"-10", pink, blooms May-

Armeria maritima: 6", pink, crimson, blooms May-June.

Asperula hexaphylla (woodruff): 6"-8", white, blooms
May-June.

Asperula odorata (sweet woodruff): 6"-12", white, blooms May-June.

Aster alpinus (blue mountain aster): 5"-10", bright purple, blooms May-June

Anbretia deltoides (purple rock cress): 4"-6", dark violet, blooms April-May.

Aubretia purpurea: 4"-5", purple, blooms April-May.

Bellis perennis (English daisy): 5", white and pink, blooms May-June.

Bellis rotundiflora coerulea. 4", white, tinged lavender, blooms May-June.

Caltha palustris (marsh marigold): 1', golden yellow, blooms April-May.

Caltha palustris fl. pl.: 6", bright yellow, blooms April-May.

Lattha patistris R. pl.: 6", bright yellow, blooms April-May,
Campanula alpina (bell-flower): 6"-10", blue, July.
Campanula carpatica 9"-18", blue, blooms June-July.
Cerastium alpinum (chickweed): 2"-4", white, blooms
May-June.
Cerastium tomentosium (snow in summer): 6", silvery
foliage, white flowers, blooms June.
Centaurea dealbata (bachelor's button): 18", deep pink,
blooms Lib. Aurust.

Gentaurea dealbata (hachelor's button): 18", deep pink, blooms July-August.
Chrysanthemum arcticum: 12".18", white, blooms September-November.
Claytonia virginica (spring beauty): 6", light pink, blooms April-May.
Convallaria mojalis (Iliy of-the-valley): 6".12", pure white, blooms May-June.
Crucianella stylosa (Crosswort): 6"-9", crimson, pink, pale rose, blooms June-September.
Delphinium chinense (larkspur): 12".18", gentian blue, blooms June-September.
Dianthus barbatus (sweet william): 12".18", red, white, rose, blooms June-July.
Dianthus deltoides (maiden pink): 8"-9", pink, white, blooms June-July.
Dianthus neglectus: 8", bright rosy pink, blooms June-September.

September.

Diantihus plumarius (grass pink): 1', various colors, blooms June-September.

Dicentra canadensis (squirrel corn): 6", white, blooms May.

Dicentra spectabilis (bleeding heart): 1', pink, blooms May-June.

Draccephalum Ruyschiana (dragon's head): 8"-12", purple, blooms June-July.

Doronicum excelsum (leopard's bane): 18"-2', bright yellow, blooms April-May.

Epimedium alpinum (barrenwort): 9", dark crimson, yellow, blooms May-June.

Epimedium violaceum: 9", violet, blooms May-June.

Euphorbia polychroma (milkwort): 2', chrome yellow, blooms April-May.

Centiana caulis' (gentianella): 18", deep blue, blooms August-September.

Centiana Andrewsii (bottle gentian): 18"-24", deep blue, blooms August-September.

Ceranium sanguineum (crane's-bill): 1'-18", deep purple, blooms June.

Ceranium sanguineum (crane's-bill): 1'-18", deep purple, blooms June.

Geranium sanguineum var. album: 18", white, blooms

ple, blooms June.

Geranium sanguineum var. album: 18", white, blooms
June.

Globularia trichosantha (globe daisy): 6"-8", blue,
blooms May-June.

Gypsophylla repens (baby's breath): 4"-6", bluish
white or pale pink, blooms June-July.

Helleborus niger (Christmas rose): 9"-15", white and
purple, blooms March-April.

Hepatica triloba (common hepatica): 4"-6", white,
lavender, pink, blooms April-May.

Heuchera sanguinea (coral bells): 18", bright crimson, blooms June-September.

Heuchera brizodes: 18"-2", purple, pink, blooms JuneSeptember.

Hypericum calycinum (Aaron's beard): 1', golden yellow, blooms August.

Hypericum Moserianum: 18", golden yellow, blooms
June-September.

June-Septembe



Boulders and a tiny stream well combined. Notice how effectively the large elm tree focusses the whole effect.

The foreground flowers are Phlox subulata

rock garden can be made almost anywhere upon a property, a natural site often exists and needs only to be recognized.

The ideal situation involves the finding of a sequestered and sheltered part of an estate where sufficient but not too much sunshine can be obtained and in which the plants will be protected from the cold winds of winter. If it is possible, select a place with an approach through the wild garden or shrubbery. A stream should be brought through the garden if there is not already running water. A stream greatly increases the variety of plants that may be grown, affords unlimited possibilities, and adds much to the charm of the garden. An open situation, away from the roots of encroaching trees or tall shrubbery should be selected, with sloping, undulating ground and preferably facing south or south-east. There should be no trees within fifteen yards of the garden, for their roots extract the plant food from the soil and the dripping from their branches is detrimental to most Alpine plants.

The proper building of the garden is of the

utmost importance, and should be done step by step. Remember that the object of a rock garden is to grow plants and not rocks. It is well to go to Nature and study some natural geological formation rather than try to build a second Stonehenge. a definite design from which to work. Aim at variety and balance in your plan and avoid



Artificial rock-work must be handled with restraint to avoid grotesqueness. Quite fittingly, the entrance to this naturalistic grotto is flanked by tall ferns

fussy effects. Place your stones so that the finished effect will reproduce in small rock gardens some portion of an Alpine scene, and in medium sized or large ones the scene in its entirety but on a small scale.

In placing the rocks remember that the object is to make the visible ones appear to be

Iris Fumila (dwarf iris): 4"-8", deep violet, blooms May.

Iris Fumila florida: 6", 1-mon yellon, blooms May.

Iris Fumila florida: 6"-8", light and dark violet, blooms May.

Linum flavum (yellow flax): 1'-2', yellow, blooms June-1ul.

Linum ferenne (perennial flax): 1', blue, blooms June-August.

Linum berenne (perennial flax): 1', blue, blooms June-August.

Lychnis Haageana (shaggy lychnis): 8"-12", red, blooms June-August.

Lysimachis nimmularia (moneywort): 1"-2", yellow, blooms June-July.

Mertensia virginica (mertensia): 18", blue, blooms May-June.

Myasotis palustris semperflorens (forget-me-not): 8", blue, blooms May-September.

Myasotis palustris s'es", blue, blooms May-September.

Nepeta glechoma (ground ivy): 3", blue, blooms May-June.

June.
Oenothera missouriensis (Missouri evening primrose):
1'-2', yellow, blooms June-August.
Oenothera cespitosa (syn. marginata): 9", white,
blooms July-September.
Oenothera fruticosa Youngii: 18", yellow, July-Octo-

Oenothera frusicosa Youngii: 18", yellow, July-October:
Oenothero iarazacifolia (syn. acasiis): 6"-9", white changing to rose, blooms July-October.
Pachysandra terminalis (spurge): 6"-9", greenish white, blooms May-June.
Papaver nlpinum (Alpine poppy): 6", white, blooms May-June.
Papaver nudicaule (Iceland poppy): 12", white, yellow, orange, red, blooms May-October.
Pentstemon digitalis (beard tongue): 4"-5", white, blooms August-October.
Photo amoena (hairy phlox): 4"-6", bright rose, blooms May-June-July.
Phlox divaricata (wild sweet william): 12", illac, blooms April-May.
Phlox subultata (mosa pink): 4"-6", various pink, blooms April-May-June.
Phlox subultata roses 3"-6", rose, blooms April-May-June.
Phlox subultata roses 3"-6", rose, blooms April-May-June, blooms August-September.

Podophyllum peliatum (May apple): 6"-8", white, blooms April-May.
Polemonium reptans (Jacob's ladder): 6"-8", light blue, blooms April-May.
Polygonatum multiflorum (Solomon's seal): 6"-12", greenish white, blooms April-June.
Primula Sieboldii (primrose): 6"-12", white and various, blooms April-May.
Primula veris (cowslip): 6"-9", canary yellow, blooms April-May.
Pulmonaria anaustitolia (blue cowslip): 6"-12", blue.

April-May.

Pulmonaria (mynatifolia (blue cowslip): 6" 12", blue,

Pulmonaria saccharata (lungwort): 1"-2", pink changing to blue, blooms May-June,

Raumeulus refers #, 04, (creeping double buttercup):
6"-12", yellow, blooms May-August.

Sanguinaria canadensis (bloodroot): 6", white, blooms

April-May.

Santolina income (layendar catton): 10" illumy this

Santolina incana (lavendar cotton): 18", silvery white

Santoina meana (uwendar cotton): 10, silvery white foliage.
Saxifyaga crassifolia (saxifrage): 12"-15", pink, blooms April-May-June.
Saxifyaga cordifolia: 12", klac-purple, blooms April-May.

Sedum acre (stonecrop): 2"-3", yellow, blooms May-

June.
Sedium spectabile (showy stonecrop): 18", lavenderpink, blooms September-October.
Sedium stoloniferum: 6", purplish pink, blooms July.
Silene alpestris (catch-fly): 4", white, blooms July-

Silene albestris (catchig): 4", white, blooms July-August.

Spirace filipendula (dropwort): 15", white, blooms July-August.

Spirace filipendula (dropwort): 15", white, blooms June-July.

Trillium rectum (wake-robin): 12"-18", purple, blooms April-May.

Trillium grandiforum: 12"-18", white, April-May.

Trillium grandiforum: 18"-2", pale yellow, blooms May-August.

Tropacolium polyphylium (nasturtium): trailing, orange yellow, blooms June-July.

Veronica spicata 1'-18", bright blue, June-July.

Vinca minor (periwinkle or myrtle): 6", evergreen.

Viola cornuta (tutted pansy): 5"-8", various, blooms April to frost.

PLANT MATERIAL FOR THE BOG GARDEN

Adonis amurensis (pheasant's eye): 9"-1', yellow blooms March-May. Adonis pyrenaica: 1', golden yellow, blooms May. Adonis vernais: 9"-1', deep yellow, May. Andromeda floribunda (andromeda): 2'-3', white, blooms carly May. Andromeda polyfolia: 1', pink, blooms May. Anemone alpina (amenon): 6"-1', white, blooms May. Arethusa bilbosa (arethusa): 8", rose-purple, blooms May.

May.
Asalea amoena (azalea): 12"-15", rosy crimson, blooms May.
Azalea hinodegira: 12", brilliant red, blooms May

blooms May.

Azalea hinodegira: 12", brilliant red, blooms May June.

Azalea procumbens: 2'-3', pink, blooms April-May.

Azalea vosaeflora: 3', salmon, blooms April-May.

Azalea vosaeflora: 3', salmon, blooms adpril-May.

Azalea vosaeflora: 3', salmon, blooms adpril-May.

Azalea vosaeflora: 3', salmon, blooms adpril-May.

Berberis empetrifolia (barberry): 18"-2', orange.

Foltonia latisquama var. nana (false chamomile): 2',

pinkish lavender, blooms August-September.

Calceolaria plantaginea (calceolaria): 12", yellow,

June-August.

Caltha parkstris (marsh marigold): 1', yellow, blooms

April-May.

Caltha parnassifolia: 12", yellow, blooms April-May.

Campanula hederacea (beliflower): 3", bluish purple.

blooms May-June.

Convallaria majalis (lily-of-the-valley): 8", white,

blooms May-June.

Cypripedium spectabile (lady's slipper): 8", white,

blooms May-June.

Daphne encertum (garland flower): 12", rose, blooms

May-June.

Daphne encertum: 18", pink, blooms March.

Dicentra candensis: 6", white, blooms March.

Dodecatheon integrifolia (shooting star): 4"-6", rosy

crifison, blooms May-June.

only a smail part of what is hidden by the soil. Place the additional rocks so that the strata all run in the same direction, putting the largest rocks and boulders at the bottom and burying them one-third in the ground. The size of the stones used should depend upon the size of your garden. Build the rocks and soil carefully together, eliminating air spaces between the rocks. The stones should be placed in such a manner that the water will drain into the soil rather than run off. Finally, remember to leave plenty of pockets for the soil and plants between the rocks.

It is advisable to use rocks that will give an old, weatherbeaten appearance, such as moss-grown stones; but it is of the

utmost importance to avoid anything which will crumble with exposure. Artificial rocks, bricks, old tree stumps or wood of any kind should never be used. Sandstone and mountain limestone are good to use because they are soft and porous and of a moisture-retaining character.

Alpine plants, contrary to a quite widespread belief that they will grow in almost any



To one standing near the rock house shown in the photograph on page 31, this view is presented.

Lombardy and Bolles poplars mark the skyline above the golden elders which form a background for the smaller plants

kind of earth, require a good rich soil. Porous soil mixed with leaf mold and well rotted manure, used to a depth of 2' or 3' with a light, sandy subsoil, will give the best results. Avoid a heavy clay soil. The garden must be constantly watched in summer and the ground kept from drying out. An annual top-dressing of soil every spring will prove beneficial to all the plants.

Good drainage is essential to the success of this type of garden. The correct placing of the rocks and the presence of a tiny stream are great aids to proper drainage but are not sufficient in all cases. For dry stone wall gardens it is sometimes necessary to install a sub-irrigation system consisting of a perforated wrought iron pipe placed along the top and rear of the wall. In most cases it is not necessary, however, to irrigate if care is taken in the location and building of the garden,

The planting calls for care and a fine sense of fitness. One's aim should be to have the garden present the best possible appearance throughout the year; this can be accomplished by providing for a continu-

ity of bloom. By using the early spring flowering bulbs such as snowdrops, scillas, crocuses, grape hyacinths, chionodoxa, colchicum and poet's narcissus for early spring bloom, the Alpines and small, compact growing shrubs for spring and summer, and dwarf evergreens for winter when the flowering plants have died down, a pleasing year-round effect results which offers abundant variety.

Gentiana asclepiadea (gentian): 2', blue, blooms July.
Gentiana bavarica: 1', blue, blooms July.
Gentiana Favratii: 1'-2', deep blue, blooms July.
Gentiana Favratii: 1'-2', deep blue, blooms July.
Gentiana preumonanthe: 6"-8", deep blue, blooms
August.
Gentiana verna: 1', blue, blooms May-June.
His cristata (iris): 6", azure blue and filac, blooms
April May.
His sibirica: 1', iliac, blooms April-May.
Linnaea borealis: 8"-12", pale pink, blooms June.
Lobelia cardinalis (cardinal flower): 2'-3', red, blooms
August-September.
Lobelia cardinalis (cardinal flower): 2'-3', red, blooms
March-April.
Muscari botryoides (grape hyacinth): 6", blue, blooms
March-April.
Oenothera Arendsii (evening primrose): 1'-18", pink,

March-April.

Cenothera Arendsii (evening primrose): 1'-18", pink. blooms May.
Cenothera cespitosa: 12", white changing to rose, blooms May.
Cenothera repticosa: 18", yellow, blooms May.
Cenothera speciosa: 18", white changing to pink, blooms May.
Cenothera speciosa: 18", white changing to pink, blooms May.
Cenothera speciosa: 18", white changing to pink, blooms May.
Critis faifofia: 12", purple, blooms June.
Orchis maculata var. superba: 18"-2", illac spotted purple, blooms June.
Primula Bulleyana 1', orange scarlet, blooms June
Primula Bulleyana 1', orange scarlet, blooms June
Primula proponica: 1', deep crimson to pure white,
Intimula japonica: 1', deep crimson to pure white,

Primula sivolicrata: b', creamy white, thooms April-July.

Primula joponica: 1', deep crimson to pure white, blooms May.

Primula pulverulenta: 1', crimson, blooms April-May.

Primula siekimensis: 1', yellow, blooms April-May.

Primula siekimensis: 1', yellow, blooms May.

Ranunculus aconstipolius (crowfoot): 2', white, blooms May.

Ranunculus alpestris: 4".6", white, blooms June-July.

Ranunculus parnassifolius 6", white, blooms June-Sanguinaria canadensis: 6", white, blooms April-May.

Sanjiraga caspiosa: 4", red, blooms April-May.

Sanjiraga sanguinea susperba: 4", carlet, blooms May-July.

Sanjiraga exarata: 4", white, blooms June.

Sanjiraga acadensis descriptions May-June.

Trillium erectum: 1', purple, blooms May. Trillium grandinorum: 1', white, blooms May.

PLANT MATERIALS FOR POOLS AND PONDS (\* Plants suitable for 1' or less of water, or on banks)

Butomus umbeliatus (flowering rush): 2'-3', rose,

Butomus umbeliatus (flowering rush): 2'-3', rose, blooms summer.

"Caltha palustris (marsh marigold): 1'-2', bright yellow, blooms April-Tune.

Carex (sedge): 1'-3'.

Epilobium hirsutum (willow-herb): 2'-4', purplish.

Hippuris vulgaris (horse-tail): 2'.

Hotonia palustris (feather-foil): light purple, blooms summer.

\*\*Iris laevigata (Japanese iris): 2'-3', various, except red, blooms June, July, \*\*Iris pseudo-acorus: 2'-3', yellow, blooms June. Iris versicolor (native blue flag): 2'-3', purple marked with yellow, blooms June. \*\*Iris sibrica: 2'-3', laevader, blooms June. Lysimachia thyrsilora (loose-strife): 4"-6", yellow. \*\*Myosotis palustris (forget-me-not): blue, blooms June. Niphar luteum (European yellow pond lily): blooms June. \*\*Nymphaea advena (yellow water lily): yellow, blooms June to August.

Nymphaea advera (yellow water lily): yellow, blooms June to August.

\*Nymphaea alba var. candidissima (white water lily): white, blooms June to August.

\*Nymphaea Marilacea (Marilac's hybrids): white, blooms June to August.

Nymphaea odorata (native white pond lily): white, blooms June to August.

Nymphaea odorata var. rosea (Cape Cod water lily): pink, blooms June to August.

Polygonum amphibium: spreading, light rose.

Pontederia cordata (pickerel weed): 2'-4', purple, blooms June to August.

Rannuculus aquaticus var. lingua major.

Sagittaria latifolia (arrowhead): 6"-4', clear white.

\*Typha latifolia (cat-tail rush): 4'-8', brown, July to August.

PLANT MATERIAL FOR THE DRY WALL (Those which thrive best when planted flat against a perpendicular rock face are marked (\*). The color, height and period of bloom of these plants may be found under the list of material for the rocky bank.)

Androsace alpina.

\*Androsace pyrenaica.

Arabis albida.

Ajuga repensiosa.

Ameria cespitosa.

Ambretias of all kinds.

\*Campanula Elantines.

\*Campanula iragilis.

Campanula olpinas.

Aquilegias of all kinds.

Juanthus alpinas.

Aguilegias of all kinds.

Dianthus suaris.

\*Dianthus suaris.

\*Dianthus suaris.

Gentiana acaulis Primula marginata. Primula viscosa. Saponaria cespitosa

PLANT MATERIAL FOR CREVICES BETWEEN WALKS AND STONY STEPS

Ajuga repens (bugle weed).

Alyssum saxatile compactum (silver madwort).

Aquilegias (columbine).

Arobis albida (rock cress).

Campanula cespitosa (bellilower).

Campanula rotundifolia (harebell).

Consetium Lamautosum (anow-in-summer). Campanula votinalifolia (harebell).
Cerastium tomentosum (snow-in-summer).
Cheiranthus alpinus (wallflower).
Ceraium acaulis (gentianella).
Ceranium maculatum (crane's bill).
Gytsophila repens (baby's breath).
Phios subulata (moss pink).
Potiulaca grandiflora (rose moss).
Sanguivaria canadensis (bloodroot).
Saponario ocymoides (soapwort).
Sedum acre (wall pepper).
Tunica sastirgap (sastirgae).
Veronica rupestris (speedwell).

## THE SPIRIT of OLD-FASHIONED GARDENS

With a Plan for a Garden Reproducing the Atmosphere of the Puritans

AN old-fashioned garden—how the picture flashes across the mind! Lilac, laburnum, snowballs and syringas arching over the gate and crowding the white pickets of the fence. A sundial and arbor of delicate Colonial pattern; neatly raked gravel paths skirting the box-edged beds wherein graciously nod the flowers our grandmothers loved—hollyhocks, honesty, roses and heart's-ease. Many such gardens can

Many such gardens can still be seen, and the old ladies are always smilingly glad to entertain you. They will point out their treasures with particular pride—the old fig tree, the mulberries, and the grapes—and in the arbor before you leave, serve you tea in the blue Crown set.

How can such a garden be reproduced? Was not its evanescent charm too subtle to be expressed in terms of beds and walks,

shrubs and flowers? What was its secret?
The old gardens were successful because they filled an actual need in the lives of the people. To appreciate this it is necessary to know how those people lived, and to study their ideals. A modern reproduction of an old-fashioned garden must fill a like requirement in the lives of people today or it cannot be a success, no matter how truly it imitates the old. People are not now so dependent on their gardens for the necessities of life. The raising of

fruits and vegetables for practical use, while not wholly discontinued, in normal times has become subordinate to the growing of flowers for cutting and out-of-door decorative effect. Standards, too, have changed. We are no longer satisfied with the ungentle mixtures of color which the old gardens displayed.

There are distinct kinds of old gardens in each section of the country. In the extreme South is the Spanish type, a walled enclosure of simple though formal design, with roses, heliotrope and carnations, oranges and lemons, figs and pomegranates.

In the Carolinas we associate the walled enclosures about the stately old mansions with live oaks draped in gray moss, azaleas, camellias, and crêpe myrtles.

In Virginia, as with all



In the old-fashioned garden flowers straggled informally over the walks, their background of tall shrubs lending an air of length and sechusion. These gardens, the plan and the text are the work of Elizabeth Leonard Strang, landscape architect

of the Colonies, the earliest gardens were for necessities alone, but soon the luxurious ideas of the Cavaliers began to assert themselves and flowers occupied a definite place in the decorative scheme. Living as they did on large plantations, there were no homely enclosures or cottage gardens. The settlers brought ideas from Holland, acquired during their exile in that country; from Italy, and from England, where the Elizabethan garden was then at the height of its perfection and popularity.

These early gardens were carefully designed. Usually a terrace next the house, with a retaining wall and broad steps of stone overlooked the parterre with its knots or beds of boxwood. These were often very elaborate, the pattern deemed of more importance than the flowers which filled it. Next came the garden proper, a larger enclosure with broad straight walks and beds of simple design, the whole always enclosed by a hedge or high wall.

The Quaker gardens, like those of the Cavaliers, were laid out along ample proportions and long restful lines, but with less of elaboration and luxury as befitted their simplertastes.

The gardens of the Dutch were trim, minute enclosures, their design based on the square, the circle, or the oval, kept with extreme neatness and

planted with flowers, vegetables, herbs and fruits, cabbages and tulips occupying especially prominent places among them.

The Puritan nature is found expressed in the gardens of New England, and such designs as they followed were adaptations from the Dutch, though more often the little fenced-in front yards held only simple square beds. The first mention we find of gardens for flowers was in 1629, but from the very beginning there was the useful plot at the back, where lowly back-

door flowers, vegetables, fruits and simples shared in contributing necessities and comforts to their caretakers.

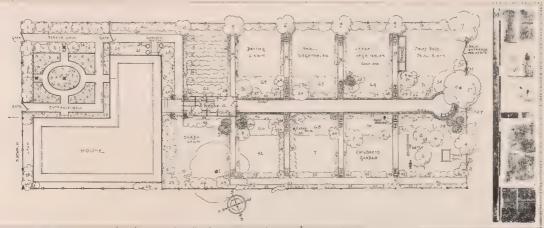
No formula can be laid down for making an old-fashioned garden. Every type of house, be it Spanish, Georgian Colonial, Pennsylvania stone, Long Island Dutch, or New England square, has its special problem, in the solution of which climate as well as architecture plays an important part that we must not overlook.

In Puritan times, to grow flowers for their beauty alone was held to be, if not a sin, at least a vanity. Nevertheless the busy housewife found moments in which to care for the little fenced-in plot before the house.

The authoritative list is short: crown imperials, daffodils, red and yellow tulips, poet's narcissus and



The Cavalier type, which was found in the Virginias, had a strongly formal spirit. It often included a parterre. The simplicity of the design and the neatness suggest the old Elizabethan gardens, their general source of inspiration



grape hyacinths, red peonies, purple and yellow iris, magenta phlox, Canterbury bells, scarlet lychnis or Maltese cross, and day lilies of blue and white comprise the list. Surrounding the flowers were always a few old shrubs-flowering almond in the place of honor under the window, and Peter's wreath, sweet shrub, flowering currant, snowberry and a few choice roses near by

Such a mixture would hardly appeal to our ideals of beauty today, so many flowers of harmonious color and sentiment have been included in the plan for the front yard garden, The Puritan garden and its planting plan given on this page represent the spirit of an age which demanded utility as well as an intimate touch of beauty

which is small enough to be taken care of by the housewife of today.

The tall flowers are grouped promiscuously in the centers of the beds with some attempt at balance of season, while mixed edgings of tiny plants, bulbs and fragrant herbs creep over the brick-edged paths. Oleanders in tubs provide a note of architectural dignity, hollyhocks stand in serried ranks against the house, hawthorns and sweetbriar shut off the street, and round about are other old shrubs and roses.

In the rear of this garden is a typical plot laid out as these orderly householders loved to have it. The general plan is informal in the extreme and at first glance seems irregular and disorderly. It was really very carefully planned, however. The beds were not laid out in shapes for their own sakes, but there is careful design in the sense that the garden as a whole served a useful purpose and each plant was placed in the location most favorable to its growth.

#### PLANTING LIST FOR THE FENCED-IN FRONT YARD

Note: Only the part of Plan 2 between lines A-A is included here

Note: Only the part of Plan 2 between lines A-A is included here.

SHRUBS AND YINES

1. Grategus yayacantha: English hawthorn, fragrant white flowers in May, red fruits.

Prunus Japonica, flore pleno: double pink or white flowering almond, May.

2. Syringa vulgaris: common priple lika, May.

3. Syringa vulgaris: common priple lika, May.

5. Syringa vulgaris: common priple lika, May.

6. Spiras prunifolla: Peter's wreath; white, purght bush, May.

6. Spiras prunifolla: Peter's wreath; white, upright bush, May.

7. Old-fashioned roses

A. Rosa rubhiphona: calculate visual, belows continuously, upright bush.

C. Perpetual rose: celletare blush, blooms continuously, upright bush.

D. Tukcany rose: black-wurple, fading to dark crimson.

PERES, White Proceeds or cabbage rose.

8. Chieranthus Chileri: wallflower, dark red, cream color, yellow and brown. May.

9. Psonies, pink and white as in list at and 2.

10. Iris as in lists 1 and 2.

10. Iris as in lists 1 and 2.

10. The parties of the process of t

Dispuss.
Plansies.
Johnny-lump-Up.
Annual candytuft seeded where space occurs.
Scotch pinks, all around center bed and on corners
Sweet violes.
Sweet violes.
Sweet violes.

E. Sotoch pinks, all around cetter bed and on corners

P. Sweet volcating. In shade under strubs,

If. Floomarinus efficientlis: rosemary.

If. Floomarinus efficientlis: rosemary.

If. Floomarinus efficientlis: rosemary.

J. Flutta graveolens: ruo: laweder. These herbs to be put in hit or miss with flowers. Valerian efficientlis: sarrier, heliotrope; pink, June.

Dlanthus barbatus: Sweet William; newer strains of pure white, dark red or pink are best. Digitalis purpures: logs/orcy white, purple, pink, June.

Dlanthus barbatus: Sweet William; newer strains of pure white, dark red or pink are best. Digitalis purpures: logs/orcy white, purple, pink, June. June-July.

Campanula persieffeia: boll-flowers; white and blue, July-August.

Campanula persieffeia: boll-flowers; white and blue, July-August.

Campanula persieffeia: boll-flowers; white and blue, July-August.

Campanula pageis: annual hirkbury: blue, pink, white, all semmer:

Delphinium chiesais: fine foliage, very deep blue flowers, July.

Delphinium chiesais: fine foliage, very deep blue flowers, July to September Mathola Insens: dwarf Virginia stocks; (annual) fill where space occurs around edges.

Tagetes partula: French martigolds; (annual) fill where space occurs around edges.

Small bulbs used for edgings where room can be found.

16.

20.

Tagetes patula: French marigoids; (annual) nil waere space occurs.

Small bulbs used for edsings where room can be found.

A. Snowdrops, March and April

A. Snowdrops, March and April

A. Snowdrops, March and April

F. Orona suslanus: elden-dervint, Mar.

D. Grage lyacinths, blue and white.

S. Scilla factalis (nutnas): Bluebell of England; drooping, bell-shaped; lavender, white

P. Scilla scitatis (nutnas): Bluebell of England; drooping, bell-shaped; lavender, white

P. Scilla autumnalis: autumn-squill, small starry rose flowers in clusters. July to Oct.

Narcissaus van Slon, double daffold), Mar.

Narcissaus van Slon, double daffold), Mar.

Lillium eandidum: madonna illy; white, late June or July, 25. Oleanders in tubs.

PLANTING LIST FOR THE PURITAN GARDEN
List No. 5
On Plan 2. All except between lines A-A
Elm, to overlang shady lawn back of house.
Lombardy poplars, acceuts at far corner of lot.
Activorities, for winter color and contrast with fruit blossoms.

Peach.
Peach.
Peach.
Peach.
Plum, who did where dildren can climb them.
Cherry, near walk to grow tall and close in vista.
Auricot; planted for flowers, for it may not fruit in cold elimate.
Auricot; planted for flowers, for it may not fruit in cold elimate.
Auricot; planted for flowers, for it may not fruit in cold elimate.
Apple, to orenang sea:
White mulberry, near birdhouse.
Grapes: Salem and Catawhs red; Concord, blue; Niagara, white.
Riacheries, 18. Gouseberries, as they stand some shade.
Currants; berry plot, screens service entrance from garden. 17. Strawberries, Corylus Americana; hazel-nut, near children's plot.

SHRURS AND ROSES

19. Azalea Vasayi: soft pink, April, shade.
20. Box; (as) large, irregular specimens as accents on corners, and (b) old rauged dwarf eights box down center walk, collected from old place if possible.
21. College of the control or properties for felly, near kitchen, service of the college of the college

Wistaria Chinosis: purple wistaria, trained to rustic cedar pole.

Akaba, quinata: five-fingered alobia; delicately twining vine, fine leaves and fragrant

Akaba, quinata: five-fingered alobia; delicately twining vine, fine leaves and fragrant

Huitius Isupulus: hoy vine; (annual) good for immediate effect.

Lonicera somervirens: coral honeysuckie; not on oldest lists but milke old ones, pur
chaseache. Long scarlet flowers and thick glascous leaves united at the base.

chaseable. Long searlet flowers and thick glancous leaves united Meaths piperist; seegermint; needs a boxed in bed or it spreads Artomisis dracusculus: tarnagon; useful for flavoring vinegar. Allium Schempersum: chive; for salads and soups. Allium Schempersum: chive; for salads and soups. Thymus vilgaris: creening thyme; for flavoring. Lavondula vera: sered insender, for linens, not hardy north. Lavondula vera: sered insender, for linens, not hardy north. Wepets catariors: lenon verbens, for seenting these; not lardy. Wepets catariors: lenon verbens, for seenting these; not lardy. Wepets catariors: lenon verbens, for seenting this, cats fond of fir. TABLES Grant as a border to look on the seen of the seen

Asnaragus, placed where the feathery plumes will frame the lawn. NNIAIAS
NNIAIAS
NNIAIAS
NNIAIAS
STATE of conservation of cross-walk.
Wild flowers in shade among ferns next lawn. Viola Canadasais and gubescens, tall white and yellow violets; foun flower, wild Sweet William, May-apple, Jack-in-the-pulpit, hepatica, spring beauty (Claytonia), trillium, etc.
Prims, as edge of one of the small walks.
Primulas, large yellow, in masses down entire length of center walk.
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Primilas, large yellow, in masses down entire length of center walk.
Primilas, large yellow, in masses down entire length of cen

Dack of ferns.

lies, accent in shade.

s, bold masses at end of center walk, to frame seat.

in other lists; also Pluk Beauty, Elizabeth Campbell, Selma, Rynstrom
as account at end of cross-walk.

Late tulips, not literally the old fashioned varieties but the best soft colors:
Clara But, Madame Krelage, Edmee, pink.
Moonlight, Frimrose Reauly, Rathofers, pellow.

Faust, La Tulipe Noire, dark maroon, etc., etc.
Pool's narcissus, in shade bordering walk under arbor
Nardissus, large yellow trumpet, in front of grapes.

Mag as in other lists in front of grapes.

Allies as in other lists in front or grapes.

All-Seceilary planned effects in soft colors down center walk in large beds.

Orrange marigolds, appropriate in hed near kitchen down.

Cosmos, tall mass of festberry green to close in arbor.

Shell pink annual asters; not on old lists but must be had for cutting.

Love-in-a-shirt, delicate blue, with the punk asters. Seed in.

Love-in-a-shirt, delicate blue, with the punk asters. Seed in.

Popules, large double fringed white and pink. Also Shirley varieties; thin to 8".

Rose pink zinnias, pull up all other colors. Not on oldest lists.

Stocks: soft rink, laweder, dark reddish purple, canary color.

Calendulas, pale suphur yellow.

Fuchsias, rose gerunium, small pink fairy liles (Zephyranthes rosea). Agapanthus lily, (blue), cleanders, azaleas, etc. Standing in pots on edge of lawi.,



## A GLACIAL GORGE ROCK GARDEN

Thirteen months before this photograph was taken the spot was a glacial morain—a bare field with many fine boulders scattered about. With a nice discernment for the natural beauty of rocks and water, the designer laid out this lily pond at one end and built up a cave of the winds where the breezes blow dancing wraiths of myriad colored nisty spray. Rock plants are tucked away between boulders. From this pool the channel leads to two others, accorded a similar treatment. The garden is on the estate of George P. Mellick, Esq., at Plainfield, N. J. The landscape architect was C. W. Maredydd Harrison



Clipped barberry is used in the garden above to a utline the form al grass walks, while arborvitae, sheared to perpendicular sides and flat top, forms an enclosing wall. Mary Rutherford Jay, landscape architect



The round plan, applied to a smaller garden, proves the adaptability of the circle in garden design. Here the paths are accented by being of gravel, and the entrances are marked by rose arches. Paul R. Allen, architect

THE CIRCLE IN GARDEN LAYOUT AS APPLIED TO TWO FORMAL DESIGNS

Covering an acre and a half in the heart of Cleveland, Ohio, is the garden of Francis A. Drury. Everything was brought there—trees, rocks, and the hills and slopes made. City water is used for the pools



It is difficult to imagine that these sectuded steps have not been there since the beginning of time. The garden is an accomplishment in the new school of landscaping—the naturalistic



Aptly enough this garden is called "The Oasis". The planting is so arranged that the surrounding city is completely hidden and its noises lost in the transplanted woodland growth

Flowers are planted around the pools, giving an enrichment of color. Many of the shrubs are also flowering types and the garden lacks no natural interest of varied biossoms

## THE GARDEN POSSIBILITIES of a CITY BACK YARD

Exploding the Theory that Pleasant Vistas and a Wealth of Bloom Are Restricted to the Broader Areas of Country Gardens—A Definite Planting Plan

THE city back yard is by no means the hopeless, dreary horticultural desert that one is led by pessimistic forecasts to believe. Whatever hopelessness enshrouds it is usually evolved from the attitude of mind of the owner or occupant of the particular back yard under consideration. If one takes the stand that the position is untenable and that nothing can be done, the probability is that nothing will be done; but if on the contrary there is a determined effort to "start something" then something is going to happen, and that something will doubtless bear results.

A city back yard is just so much land, just as an equal piece of land elsewhere is but a piece of land. The thing to do is to go to work and see what can be done with it. To be sure, the land is apt to be hard from lack of tilling, and is probably lacking in fertility; but both these objections can be overcome by thorough digging in the one case and the application of fertilizers—preferably well rotted barnyard manure—in the other.

Just what is to be undertaken in reclaiming a neglected back yard will depend entirely upon the tenure of occupancy. If the residence is a permanent home, then the yard may be laid out into walks, a bit of lawn, flower borders and shrubbery; for even a two-by-four-rod Iot will afford room for a generous planting and such garden accessories as one may desire. But if the home is merely temporary, then not much

in the way of permanent improvements will be undertaken; yet the yard may be made charming by the use of bedding plants, annual flowers and vines sensibly arranged.

The first thing to undertake will be a thorough cleaning up of the ground, removing everything that is not actually necessary and making the ground as smooth and presentable as possible. The next thing in order will be hiding the division fences and any outbuildings that exist with vines or tall growing annuals. Narrow beds dug along the fences on either side may be planted with vines of quick growth, and such summer bedding plants and tall annuals as cannas, cosmos, ricinus, and the like may be used to mask the rear fence. These are all plants which may be started in the house from roots and seeds and planted out when the weather is suitable.

Usually it is preferable to leave the center of the lot open, seeding down the ground to grass for a bit of lawn; but this is hardly practicable in the temporary home. As a bare expanse of earth is anything but attractive, it will be better to put this part of the lot into flower beds, using low growing annuals or bedding plants and leaving broad walks around this miniature garden. This with the border beneath the fences will cover the lot so that only the paths remain, and if these can be covered with sand or gravel or even sifted coal ashes the result will be entirely satisfactory.

An even better arrangement than the vines growing up the fences would be the erection of boxes on top of the fences filled with trailing vines, such as nasturtiums or other gay-flowering vines. The boxes may contain upright plants as well—just the sort of planting that one makes in porch or window boxes, only on a somewhat larger scale. The expense for this sort of work need not be great, as rough wooden boxes will answer quite as well as more costly ones. The long boxes in which curtain poles are sometimes shipped are just the right thing and can be purchased for about twenty-five cents each at the dry goods or furniture stores. They need only filling with good soil to be ready for the reception of such plants as one may elect to use. If the fence has a flat board on top, the boxes may be set directly on it, but if no top rail is present the boxes are easily adjusted by means of wooden brackets attached to the fence posts.

Where the boxes are adopted instead of planting vines at the foot of the fence, then scarlet salvia, white feverfew, camphor geraniums, nicotiana, asters, stocks and the like may lift their bright heads from the ground to meet the down trailing vines. Petunias, verbenas, sweet alyssum and ageratum may be used as an edging, and the whole will furnish a wealth of bloom from early summer to frost.

Taller growing annuals may be banked about the base of the house and the rear entrance steps. Erect a trellis of wire above the entrance and cover this with Japanese morning glories, Cobæa scandens, passion vines and similar free Cooka scanaers, passion vines and similar free blooming vines. On top of the balustrade and in all the rear windows place boxes of bright flowers. If a continuous succession of boxes along the entire fence seems too great an undertaking, they may be separated by a few feet and the spaces between filled with some not too rank growing vine planted beneath the fence; or a tall growing plant may be utilized to fill the opening and relieve the monotony of a too level planting beneath. Then if one is faithful with the watering hose, zealous in training the growth of vines and plants, and will gather flowers before they fade and keep the plants free from insect pests, there will be no call to despise the city back yard.

The permanent back yard, however, should have as its chief charm a stretch of velvety green sod, well trimmed and shaved, and the flowers should be merely the framework and adornment of its beauty. A broad cement or graveled path, or one with stepping stones down its center, broadening midway of its length into a circle enclosing an artificial pool for lilies and goldfish and with garden seats at each side, may be the chief feature of this part of the yard. Mass planting of tall growing perennials and shrubs may serve as a screen for an enclosing fence or undesirable view. Taller shrubs and ornamental trees may close the vista in the rear, and a little tea house or pergola makes a shady retreat at the end of the path. Stepping stones give a quaint and old-time flavor to a garden, but they must be set low enough to allow the lawn mower to pass freely over them. Walks of red brick, especially where the enclosing walls are of brick, are charming. Seats of red cement may be used with them, or wooden ones painted green.



The garden was made out of a typical New York backyard, a space of about 20' x 40'. The fences were covered with trelis which was carried up to 15', shutting out the first stories of the surrounding buildings. The fence is French green and the trellis ivory



A CITY
BACKYARD
GARDEN

RUTH DEAN Landscape Architect

Behind the house a space about 8' wide is paved and covered with trellis, form ing a shady seat. Wistaria and wild grape climb the trellis and voy is in the window box. Opposite is a wall fountain



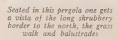






Behind the house the land slopes away leaving a bank on either side. The garden limits are marked by a long white baluster, giving space for a drive on one side, and below it, a grass walk with a massed planting of hollyhocks, climbing roses, dahlias, gladioli and other border plants against the wall

The view from the house shows the disposition of the beds. At regular intervals evergreen specimens are used for accent points. Bluestone paths wind in and out between the beds to the stretch of lawn beyond. The grassed terrace in the foreground serves for an outdoor dining room in pleasant weather



annilla minis

The CITY GARDEN of G. F. VAN SLYCK

at

ST. PAUL, MINNESOTA





## A POOL FOR EVERY GARDEN

Midsummer, and the voices of water sound most refreshingly in a garden—trickle and vplash through the long hot day and into the varm dusk. Every garden should have some water. If no brook is available, build a pool. It will hold water lilies. Goldfish can dart in its dim shallows. Birds will come there to bathe and sun themselves on its rim. All day long it will mirror the sky and at night catch the sparkle of stars. Even a little pool will do this, a little pool such as the one on the place of Ormsly M. Mitchell at Rye, N. Y. The architect was Mott Schmidt. Mrs. Ellen Shipman, landscape architect

## AMERICAN SCULPTURE FOR AMERICAN GARDENS

An Infant Art That is Worth Fostering

If sculpture is to be really acclimated in our American gardens it must be indigenous, of a kind that the average citizen can understand. It must be made to look at home in the average American place. It must be treated, not as an outstanding object of art dominating everything in sight, but as symbolizing the spirit of the place, of the flowers and leafage, an integral part of the picture. Such statuary will not be too conspicuous, and is more likely to be of bronze or lead than of marble. It will be more difficult to set especially where the composition is entirely informal, if there are no places contrived for sculpture to fill. Statuary in such surroundings is apt to look as though it had strayed in by mistake or had been casually dropped, as it does in most of our marks.

The important fact underlying this problem of finding the right place, whether in an architectural garden or a commuter's yard, is that the setting ought to be designed as well as the statue. It is not sufficient to give thought to the sculpture; it is necessary to give serious thought to the place where it is to go. If there is no fit and proper place for it, no niche in which it will naturally belong, no scene of inevitable fitness, one must be made. The statue should seem as much at home as a dryad stepping out of the tree in which she lived, or the spirit of the cave or the waterfall.

When the question of putting statuary in a small place arises, the first consideration should be, not "Is it good sculpture in itself, that I happen to like for its own sake?" but, "Is it the kind that harmonizes with its surroundings? Is there any kind of sympathy, obvious or subtle, between the sculptor's thought and the lives and loves and aspirations of those who live with it, or is it as remote from them as the Group of the Laocoon?"

Or to put the same idea in a different way, "Was the sculptor thinking of an American



A fountain, by Mrs. Harry Payne Whitney, designed for an American garden. Courtesy of the Whitney Stadio. The text in this article is prepared by Harold A. Caparn, landscape architect



"A Girl Aquaplaning," by Rena Tucker Kohlman, shows the freedom of interpretation characteristic of our American garden sculpture. It stands 20" high and is intended for a basin fountain or a small garden pool where the water could be arranged to spray against the figure. Coutesy of the Milch Galleries

In the cleft of a rock garden you discover a young Pan piping away. The gray stones are immediately animated and the rock plants vitalized. This figure by Janet Scudder is in the Rockefeller gardens at Pocantico Hills and shows the proper placing for such work—secluded and surprising as you come upon it

atmosphere as they are able to give them. Many

fountains, sundials and other garden objects are designed with the human

motive by artists honestly trying to find the true and

harmonious note. We have Yankee boys, children, dogs, rabbits, frogs, birds and so on in sculpture. It

looks as though in time

our garden sculptors would

build up a mythology of their own invention.

Silhouetted against the sky and surmounting the garden pool stands young Diana, a clear-cut gem of garden statuary. It is by Jamet Scudder and is in the garden of J. L. Severance, Cleveland, Ohio

yard with trees, bushes, grass and flowers, or was he trying merely to express in human shape his sense of beauty, or strength or speed? Was he trying to personify some abstract idea, or to make a figure which would emphasize and vivify the lines of some building?"

It is fortunate that many sculptors are now at work in the spirit of the ancients in so far as they are trying to express the sentiment of their times, the ideas with which they are most familiar. As a consequence, instead of making fauns or Minervas, they are modeling modern men, women and



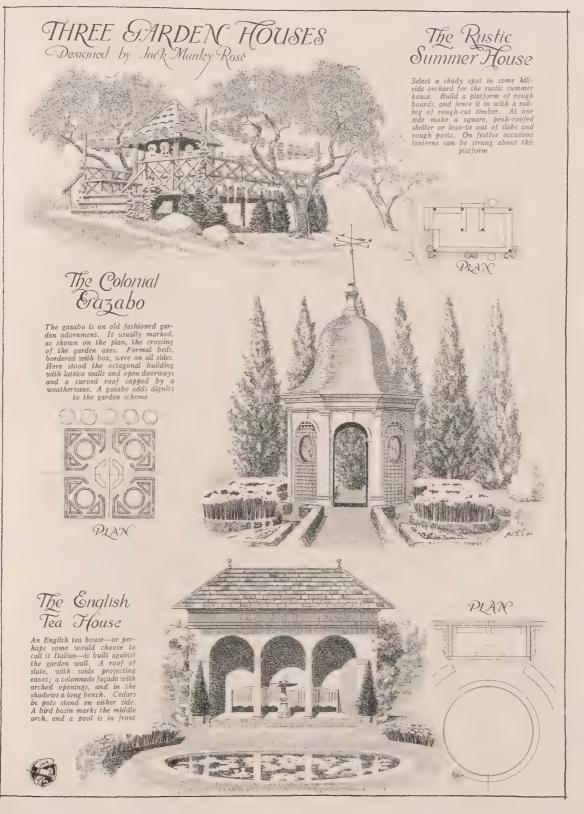


"Girl and Fish," a garden figure of happy interpretation, could find a place in a garden pool sprayed as a fountain base or in a stream of rushing water. Harriet Whitney Frishmuth, sculptor. Courtesy of Gorham Gallery



The sundial offers a wide and varied field of interpretation. This figure, "The Fruit Bearer," by Edward McCartan, has found a sunny spot in the garden of Mrs. Harold I. Pratt, at Glen Cove, L. I. Courtesy of Gorham Gallery

These figures—Morning, Noon and Night—support the table of this sundial in the garden of John Long Severance, Cleveland, Ohio. Harriet Whitney Frishmuth was the sculptor. Courtesy of Gorham Gallery





That stream is the most charming along whose banks one can wander at will, and that pool the most entiring which offers the same opportunity for close companionship with water. The stone margins are alluring pathways between the irs rows here in the Borden garden, where because of the flowing current through the pool the planting is of flowers with sheath-like foliage



The courtyard pool can transform an uninteresting flagged floor into a place of beauty and unique charm. Simplicity of treatment should be maintained throughout—even the rim of the pool needs no elaboration. In the pool can be planted water-likes, rushes and cyperus, as here at the home of Mr. and Mrs. Gordon K. Ball, Katonah, N. V. These will lend variety of color, form and size. Openings here and there among the flags can be filled with hardy foliage plants, or small flowering ones such as dwarf phlox. The background as well as the pool should be carefully planned. Heavy massing of foliage is needed there to carry the sturdiness of the court tist!. Flowering shrubs are used in this case, with climbing vines behind them. Marian C. Coffin, Landscape Architect



The formal pool invariably calls for a formal setting. Here the wide concrete coping forms an integral and important part of the design

#### OOLS T OMIRROR THE

Will Supply that Water Feature Which, Provided It Is in Keeping, Will Add to the Beauty of Any Place

"AND when you have left the desert, and come again to the fresh green of the ND when you have left the desert, and river valleys, the last thing to which you grow accustomed is the sound of running water.'

The last thing and, it might be added, the most welcome and soothing and wholly refreshing thing. In the glaring heat of the cactus country one misses keenly the softening effect of water in the landscape. By day, at least, the desert lacks intimacy, and when the reason is

analyzed it is found to lie largely in the absence of flowing streams. For whether in Nature's gardens or in our own small imitations of her handiwork, water as a purely esthetic feature fills a place which no other one element can hope to attain.

There is no need here to dwell upon this humanizing influence of water in our gardens-our interest is centered rather on how it can be brought to serve our needs. The running brook admits of the greatest variety of effects, perhaps, but for comparatively few of our gar-dens is it available. Most of us must of necessity turn to the various forms of pools and pond-like water gardens. In the planning, making and care of these are certain well-ordered rules.

Broadly speaking, there are two kinds of water features: the formal

and the naturalistic. The first may take one of several forms, such as the fountain basin pure and simple; the lily pool of regular contour, round, oval or rectangular, placed usually at the intersection of the garden axes; and the geometrically accurate pool whose primary purpose as a mirror of the surrounding trees and architectural features is served without the use of any water plants.

It is not the purpose here to take up in any

detail the subject of garden fountains and their accessories, as these fully deserve an article all to themselves. Today one can find in the open market all manner of fountain designs especially executed for garden use, and the only confronting problem is the selection of that one of them which will harmonize best with the planting scheme in general, and the exact location in particular.

All of these fountains, of course, have one

point in common: they call for a source of supply which has enough force to cause the water to flow from the opening provided for it. Provision must also be made to carry off the surplus water when the fountain is in operation. In some cases this overflow can be sufficiently to form a little rill which utilized to form a little rill which wanders away through the garden, fringed with ferns and cardinal flowers in the shady spots and in the sunlight bright with the blue of forget-me-nots catching the color of the sky. Or it may be led to a bird pool in some secluded corner.

In the great majority of pools some provision must be made for replenishing or changing the water, usually by simple inlet and outlet pipes, as suggested above. Much can be done to keep the water free from mosquito larvæ by introducing a few goldfish.



A cross-section of the concrete-lined pool shows the sloping arrangement of the soil and the partitions to hold it in place

## LANDSCAPE PLANS for the SMALL PLACE

Good Planting Effects Do Not Necessarily Entail Large Expenditures, as These Two Schemes Serve to Demonstrate

PLANNING, building and framing a home may be likened to creating, in a small way, a new heaven and a new earth. Especially is this the case with respect to the garden, the magic circle about the home.

Many an owner who has spared no expense on the house itself snaps the bands of his pocketbook at the mere mention of beautifying the lot; yet the setting should be worthy the jewel. He is not stingy; he is simply unaware of the latent possibilities with which his plot of ground teems; that the initial outlay will return in enjoyment a larger dividend than that derivable from a like amount ventured commercially. It is not so much a matter of money as of intelligent and welldirected effort.

Two problems are presented in this article, which in each case represent actual conditions.

The ideal manner of procedure is to plan the house and grounds simultaneously. the usual way is to purchase a lot, build a house on it and let the grounds take care of themselves.

In plan No. 1 is a house on a lot 60' by 120', and typical of the suburbs of a large city. As the house is placed, the garage, driveway and service entrance face the north. The obviously best arrangement is a simple lawn at the rear which will serve as play space for the children, drying yard upon occasion, or a flower garden if desired.

Since expense must be considered, all but the roughest work in making a garden should be done by the owners themselves. Here let me emphasize the importance of thorough soil preparation: Remove all gravelly subsoil to a depth of 8" for grass, 18" for shrubs,

and 2' for flowers. Indeed, the entire area should be prepared--rather than holes dug for each individual plantby filling in with good loam with which incorporated one-fourth its bulk of well-rotted manure. It is a waste of money and effort to put plants into poorly prepared soil.

The back fence is constructed of 6' by 6" posts strung with woven wire, and TO SE

Plan No. 1 is for a lot 60' x 120', the type generally found in suburban localities. The scheme for its development and for the development of the property on page 49 was designed by Elizabeth Leonard Strang, landscape architect, who also contributes the text

with a board along the bottom. It is entirely screened by vines. In front of it are a number of Lombardy poplars which help to secure privacy until such time as the shrubs attain the height of the fence.

For these shrubs, in the spring, there is the vivid yellow of forsythia, flowering cherry and crab, choice hybrid lilacs, deutzia and peonies, fragrant mock orange and lemon lily. In summer are roses, tall white daisies, a maple for shade, and a plum tree for fruit. In the train of autumn come the snowberry, high bush cranberry, scarlet thorn, and red hips of the Japanese rose. There is also the vivid red foliage of Japanese barberry, sumac and Virginia creeper; the rich bronze of Viburnum tomentosum, and the white flowering mass of Clematis paniculata. With winter come the fruits of the barberry and thorn, the orangescarlet of the bittersweet and the green the evonymus. The latter also relieves the barrenness of the north side of the house. Here a hedge of unclipped Regel's privet separates the driveway from the adjoining lot.

The front of the house looks particularly well in winter. Here are some arborvitae, and an edging of prostrate juniper. Against this green background in spring, the saffron of the crocus, the forsythia and daffodils, with a few porcelain blue hyacinths, look radiantly gay. This effect is succeeded by a combination of white Spiraea Van Houtteii, vellow iris, and lavender Darwin tulips. During midsummer it remains a restful green, to be enlivened in the autumn by the gold and white of Japanese anemones.

The flower border at the side of the porch is made up of forget-me-nots, English daisies, and early pink tulips, followed by pink peonies and spirea, iris of violet and purple and lavender-blue, and May-flowering tulips of pink and primrose. In June, early pink phlox l'Even-ement contrasts with the larkspur. Grapes shade the porch in late summer and in the border are purple and gold helenium, pink Japanese anemones, and yellow button chrysanthemum.

## PLANTING LIST FOR PLAN No. 1

#### EVERGREENS

- INDEX
  1. Thuys socidentalis, American arbervitz. I plant, 3'-3'4'.
  2. Thuys socidentalis var. Verromenne, arbervits. Comcompany of the company of the comp
- 3. Theuro occidentalist var. blobase, Globe arborite. 2 plants, 12" histonomistis, dwarf uniper. 10 plants, 1½"-2".

  4. suriperus hericonistis, dwarf uniper. 10 plants, 1½"-2".

  5. deer pistemoides, Norway maple. 3 plants, 8"-18" high. 6. Populus migra var. Italica, Lombardy poplar. Sercen to plant per per pistemoides, province of the proposed property of the proposed property of the proposed property of the proposed property of the property

- DECIDUOUS SHRUBS

- sinn Ilian, I vilent. 24/-34/2 high.

  19. Borbers Thembors, Januares burberry. Red color in autumn and berries lasting until spring. 10 plants, 1/2 2/2 in.d.

  20. Symphoc.cuppe recommons. somberry. Small shrub, 2006.

  21. Marchan Potter, 10. State Registering, Regults price, A. greeful until pool and the state of the state of

- Ciara Butt, salmon pink, 25 bilbs.

  PERENNIALS (Spring)

  Myosotis olpertits, Blue forget-me-not, 15 plants, 3" apart, 10. Belius percenus, English daisy Pink and white, 15 ll. Iris Germonica, German Iris, 12" apart, (A) Johan Derwitt, standards violet, falls purple, 10 plants; (B) Darius, standards vellow, falls line, 10 plants; (B) Patitid admirate, large porcelain blue flower, 19 jants, 12. Springs (Stimensky, pink herbiceour spires, 5 plants, 18" apart.

  PERENNIALS (Summer)

- Patied definition, large perceian due nower. In Practice Springs. Patients, 187

  1. Peony varieties. (A.) Featige massipires. S plants, 187

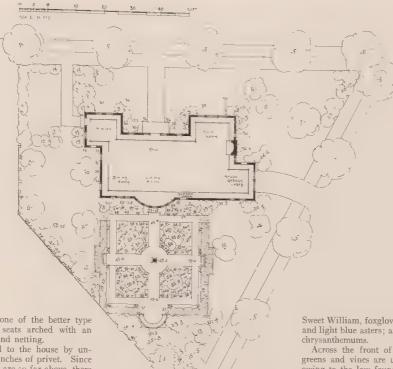
  1. Peony varieties. (A.) Featige massipires are double white feed critical with the strategy of t

Plan No. 2 is adaptable to almost any lot or house The land plan. drops abruptly away at the back, atfording an op-portunity for a garage and billiard room in the basement. From windows above, one gets the effect of a sunken garden, its formal square, shape seeming to belong to the English style of brick house. The walks are of grass; the hedge of clipped privet; the benches simple home-made ones of wood; the bird basin in the center a square pedestal of brick with shallow concrete basin. The circular seat at the end may be constructed at home of

brick and concrete, or one of the better type of white wood garden seats arched with an arbor of wrought iron and netting.

The garden is joined to the house by unclipped overhanging branches of privet. Since the living room windows are so far above, there can be no entrance from the house on the main axis, but a flight of stairs from the main floor leads down to a garden door.

Within the garden, a walk separates the beds from the hedge, planned thus from the purely utilitarian purpose of keeping its roots from robbing the flowers. Like the pictured



No. 2 is adaptable to almost any lot or house plan

Elizabethan gardens, the beds should be a mass of color from earliest spring until late fall.

In spring the hemlock, red maple blossoms, tender green of the larch. misty yellow of the spice bush, scarlet Japanese quince and snowy amelanchier outside the hedge, bid a fair morning to the narcissus, early tulips, grape hya-cinths and arabis within.

The procession never halts. Presently come white lilacs, flowering crab, wistaria, the whole splashed by the delicate tints of the Darwin tulips. Here are iris, columbine, lilac-blue Phlox divaricata;

Sweet William, foxglove and peonies; helenium and light blue asters; and last the showy yellow

Across the front of the house dwarf evergreens and vines are used sparingly, because, owing to the low foundation, too much planting would ruin the effect. The lawn in front is framed by an apple tree, two specimens of Cercidiphyllum, white fringe, spirea, forsythia and barberry.

Two buckthorns meet over the service walk, and a tall hedge of unclipped privet successfully conceals the drying yard at the side.

#### PLANTING LIST FOR PLAN No. 2

EVERGREENS

INDEX
1. Tsuga canadensis, American hemlock. 1 plant. 4'-4½'
high.

high.

Least European, European larch. 1 plant 5'-6' high.

Pinus montene, var. Muychus. Muych pine, dwarf. 6 plants,
12"-13" high.

Leucothor Cateabes, 1lly-of-the-valley shrub. Broad leaved
cevegreen, small while howers. 2 plants, 12-1½" high

#### DECIDUOUS TREES

5. Acer saccharum, sugar maple. Larger than Norway maple 9 plants, 8'-10' high.

Acer rubrum, red maple. 1 plant, 6'-8' high.

Apple. 1 plant, 5'-6' high. Alternative choice: No Spy, red winter variety; Rhode Island Green ng, wither variety; Fameuse or snow apple, hand-om autumn variety

autumn variety

8. Peach. 2 plants, 4° 5° high. Crawford's Early, yellow.

6. Cherry. 2 plants, 4° 5° high. Black Tartarian ox heart,

7. Cherry. 2 plants, 4° 5° high. Black Tartarian ox heart,

10. Quinez. Chamiton. Large yellow. 1 plant, 4° 5° high.

11. Crawdythyllum isposicion, hand-ome specimen trees, gray bear of the plants, 4° 6° high.

12. Mellis Jonessa yar. Rechtells, description.

4.6' high
4.6' high
4.6' high
4.6' high, double p'nk flowering crab,
very fragrant. 1 plant, 3'-4' high.
12. Melus S'Ardeckeri, double flowering crab, shapely habit,
voe color. 1 plant 3'-4' high,
14. likemune cathatica. 2 plants, 2'4', 5'4', high.

#### DECIDUOUS SHRUBS

dmelanchier conadensis, shad bush. Very early white flowers, edible fruit in June eaten by birds. 5 plants, 2'-3' high, 4' apart.
 Benson osetrate, spice bush. Very early yellow flowers. 3 plants, 2'-3' high, 4' apart.
 For sychio intermedia, golden bell. 10 plants, 3'-4' high.
 For Sydin.

 Chionanthus Virginica, white fringe. Flowers in May, foliage good 1 plant, 2'-3' high. Age good . P plant, 2-3 nigh.
 Luyustrum Ibota, hardy Japanese privet. Unclipped, 26 plants, 4-35 high, 3' spart; clipped for heige, 34 plants, 2-24 high, 2' apart
 Plantana opalus, high bush crauberry. 4 plants, 3'-4' high, 4' spart.

21. Cydonin japonica, Japan quince. Select some of the pink hybrids if scarlet is not desired. 4 plants, 2'-3' h g 3' apart.

22. Spiroen Van Houtter, Van Houtte's spirea. 9 piants, 2'-3' high, 3' apart.

23. Evonymus alatus, cork-barked evonymus. 3 plants, 2'-3' high, 4' apart

Philadelphus grandiflorus, the tallest variety of mock orange, 4 plants, 3'-4' high, 4' apart.

25. Syringa vulgaris, var. alba, common white lilac Grows taller than the purple. 8 plants, 2'-3' high, 4' apart.

 Ribes aureum, flowering current. Early, intensely fragrant yellow flowers. 6 plants 2'-3' high, 3' apart 27. Rosa rugosa, var. Blancho de Coubert, double white Japa-nese rose. 20 plants 1½'-2' high, 2' apart

Berberis Thunbergii, Japanese barberry. Unclipped in masses. 17 plants, 1½'-2' high, 2' apart.

Eronymus radicans, climbing evergreen evonymus. Clings to brick. 8 plants, 3 years old.

30 Schizofragma hydrongeoides, climbing hydrangea. Cling-to brick and stone. 6 plants, 2 years old.

31 Ampelopsis heterophylla, turquoise vine. Exquisite blue and purple berries, grape like leaf. 3 plants, 2 years old. Ampelopsis Veitrkii, Boston ivy. 8 plants, 2 years old.

33. Lonicera Holliona, Hall's honeysuckle. 2 plants, 3 years old. Climbing rose, Silver Moon. Large single white. 8 plants.

.5 Grape, Moore's Early Large blue variety, 2 plants, 2 years old, 8' apart.

36. Wistaria Chinensis, purple wistaria. 2 plants, 4 years old.
37. Celastrus scandens, bittersweet. 2 plants, 2 years old.

BULBS (Spring)

38. Crous Manmath Golden Yellow. Among evergreens scrossfront of house. 200 bulbs.
39. Mascari botyoudes, blue grape hysacinth. In flower garden at front of fields. 200 bulbs.
40. Nacrissus Sir Wattin, larse yellow trumpet. 100 buls.
41. Early tulips. (A) Duke of Albary rary early pink, in
bulbs around retals before pink, 50 bulbs around retals to the property of the property

42 Darwie tulins. Selected varieties of lavender, 125e at l pink, 120 bulbs near outer corners of beds.

#### PERENNIALS (Spring)

43. Arobia alphna, white rock cress. 40 plants, 12" apart.
44. Alpsama sazzette, Golden tuft. Vivid yellow for accenta.
8 plants.
45. Iris palidd, large porcelain blue iris. 40 plants, 12"
apart.

Dicksonia punctiloba, hay-scented fern. Sun or shade 18 plants, 12" apart.

18 plants, 12 "spart,
47. Aquileria hybrids, hybrid columbines.
20 plants, 12" apart,
48. Phlox diraciota, wild Sweet William.
Line-blue, 15 plants, 12" apart.

#### PERENNIALS (Summer)

Heuchers sanguinos, coral bells. Small red flowers on slender red stems, bloom all summer, leaves evergreen. 15 plants, 12" apart.
 Dijistalus glosmoeflora, foxgloves. Mixed carmine pink and white. 55 plants, 12" apart.

51. Dionthus barbatus, white Sweet William. Take up after blooming and replace with pink verbenas. 80 plants, 8" apart

8 apart
5. Paconia, var rosea elegans, peony. Double rose, creamy center. 4 specimen plants.
5.3 Papacer orientale, red Oriental poppy. 25 plants, 15" apart.

spart spart Mes.ni, mint. Mauve flowers, gray leaves, excel-lent for edging. 15 plants, 12" apart 155. Delphinum hbvirds, larkspur. 32 plants, 18" apart. 55. Opnothere Misseurenass, Missouri primose. Large solitars, 18" apart. 156. Opnothere Misseurenass, Missouri primose. Large solitars, 12" apart.

 Funkia lanceolata, lavender day lily. September. 15 plants, 12" apart Late, blooms in

Septemoer. 13 plants, 12" apart.

58. Anthems timetoria, chamomile. Yellow daisy, lasts all summer. 12 plants, 18" apart.

59. Its Kaempfert, Japanese iris. Lavender. 25 plants, 12" apart.

on Phlox varieties. 15" apart. (A) Jeanne d'Are, late pure white, 40 plants; (B) R. P. Struthers, vivid coral red 20 plants; (C) F. G. von Lassburg, large white, 10 plants.

#### PERENNIALS (Autumn)

61. Helensum autumnale, yellow sneezeweed. 12 plants, 12" apart
62. Aster Feltham Blue. Medium height, large masses porcelain blue flowers. 40 plants, 1" apart

63. Hardy chrysanthemums, aster-flowered variety Etoile d'Or, vivid yellow. 40 plants, 12" apart.



# HOW DO YOU ENTER YOUR GARDEN?

Six Suggestions for Garden Gates



If the garden is walled, the gate can be of solid planks bolted together, which will be in keeping with the rugged character of the brick wall. John Russell Pope, architect



The garden gate of wide wooden planks can be elaborated with wrought from strap hinges in character with the architectural design of the wall and the decorations upon it

(Left) A simple gate of distinguished design is arched with a pergola treatment set on high posts from which the gates archung. Courtesy of the Matthews Mfg. Co.

(Below) Set between brick posts is a rounded arch wooden gate with open, decorative panels on each side. The Colonial character is in keeping with the posts



A wrought iron gate affords a glimpse of the garden beyond.

Its design is simple

(Right) Finally one can have a frame built up in the English fashion with an arched top







If one is fortunate enough
to have an old
house or a
new house in
the old style,
she can use an
arched garden
gate, such as
this on the
place of Mr.
and Mrs. Vivian Spencer
at Avondale.
R.I. And she
can plant
along the
fence a box or
box - barberry
edged border
filled with heliotrope, lavender phlox and
pink scabiosa
mingled with
lilies and purple gladioli



On this same place the door-way garden is planted with a freedom reminiscent of English cottage gardens. There are annuals growing in tangled masses—yellow and orange calendulas, flame-colored snapdragons, richly tinted zinniax and bronze dahlias—all intermingled, with here and there an enlivening touch of violet blue Salvia farinaccea

FLOWERS for the GARDEN GATE—TWO PLANTING SUGGESTIONS for SIMPLE PLACES

MARIAN C. COFFIN, Landscape Architect

## STONE AND THE GARDEN PATH

Paved Walks and How to Make Them

THE garden without walks fails in half its mission. It may be beautiful, as a field corner thick with wild asters and goldenrod is beautiful—but it is not wholly intimate and inviting. A garden should be more than merely a pretty thing to be admired from outside. You must be able to wander through it easily and without thought of stumbling or treading on tender growing things, if you are to know it at its best. It must have paths to guide you naturally and without conscious thought.

Of a variety of paths—gravel, earth, turf and others—let us not speak here. Each has its special place, each its particular advantages. But the path of large stones is so comparatively seldom built, and its good qualities relatively so little appreciated, that it calls

for more than passing attention.

In the first place, there is practical utility. Paths like those illustrated on these pages are always dry, firm and solid. There is no mud or dust to walk in, no grass to keep eternally cutting, no back-breaking raking, grading or

filling to do after the initial work has been completed.

And there are other more esthetic but no less important features. There is something sanely substantial and forthright about the path of large stones. It knows where it is going, and why; it lends an air of permanency and dependability to the whole garden. The age and strength of the rock slabs contrast effectively with the fragile beauty of the flowers. To make the comparison still more marked, low-growing plants like snow-in-summer, speedwell and rock pink may be planted here and



The paved garden walk lends an air of solid permanence to the whole setting, in contrast to the transient flowers. Olmsted Brothers, landscape architects

Regularly shaped slabs arranged in a geometrical manner are sufficiently formal in effect to fit in well with a scheme such as this there in the spaces between the stones themselves. Along the sides, where their taller growth will not interfere with passing feet, plants of native wild columbine can lift their coral and gold heads in the May sunshine.

The actual making of such a path calls for more care than the casual beholder would suspect.

First, there is the matter of the foundation. This must be solidly made of well graded and packed earth, perhaps with an underlying layer of broken rocks for drainage if the location is low and tends to wetness. The level of the path, of course, should be raised enough to prevent surface water from collecting.

The rock slabs themselves may be of native fieldstone dressed roughly flat on the upper side, or else irregular paving stones of the sort used for ordinary street sidewalks. In either case they should be of varying sizes and shapes, except where an extremely formal effect is desired. Here uniformity of outline is called for. The limits of size vary according to the width of the path and the general scale of the surroundings, but as a general rule none of the slabs should measure less than 1' or more than 3' across the longest way.

The stones ought to be bedded firmly in the soil when the latter has had plenty of time to settle after the final grading and has been well tamped down. The surface of the slabs should be raised ½" to 1" above the top of the earth so that during heavy rains they will not be flooded.

As the photographs clearly show, a considerable variety in size as well as outline of the paving rocks is necessary to permit laying them in a wholly pleasing pattern. Anything in the nature of a geometrical, regular design should be avoided except in really formal work. On the other hand, guard against the appearance of "spottiness" which inevitably follows a too great massing of either large or small rocks. When the path is completed it ought to present a uniform appearance when considered as a whole—no particular sections of it should stand out more prominently than the others because of the size or arrangement of the stones.

The path of paved stones is sanely substantial and forthright. It knows where it is going, and why. The effect of even pattern is evident here



The spaces between the stones should also be irregular in both size and shape. It is they which outline the pattern of the path, and the slabs should never be so closely fitted that these spaces lack prominence. If this point is overlooked, the finished job will be in large measure flat, stale and unprofitable. The photograph at the left shows a path in which the pattern has been well developed.

From start to finish, keep this in mind: a path exists primarily to walk upon, and it should invite rather than discourage involuntary footsteps. To this end its surface must be level and firm. It should never inspire one-with the sensation of skipping along a stream on a succession of unevenly spaced and wobbly boulders. "Watch your step" should be as unnecessary an admonition to the stroller along the slab-laid garden walk as it is needful in the maelstrom of a New York subway station at the rush hour.

The stones should be of varying sizes and shapes. Grass may be sown between them, or low flowering plants put in. Kirkland Cutter, architect





This garden, on the place of Dr. and Mrs. J. Clifton Edgar, at Greenwich, Conn., was built in a typical Connecticut outcrop of rock. Consequently the steps were kept rugged

Where there is a slight rise in the garden, the point can be accented by shallow, flat stones set into the turf, as in the garden of Mr. and Mrs.

J. Henry Alexander, at Roslyn, L. I.

## STEPS IN THE GARDEN

MARIAN C. COFFIN, Landscape Architect



A garden of virying levels is name any marked by stone or book relationing with looken at convenient into its by supp. These setcan be of stone or book or consort. In should be known facilities a very work of vines. Here, in the greaten of Mr and Mes Berleam Bouter at Orean, V. J., privillations grew over the with row, loves at the lower garden and measures in the upper

## ARBORS, SUMMER-HOUSES and TRELLISES

A Discussion of the General Principles Which Underlie Their Use—The Questions of Style, Location and Proper Emphasis in the Landscape Scheme

FIRST come, first served, and so to first thoughts, which are usually indicative of something. They are especially significant when they have to do with outdoors. So what is the first thought when one speaks of an arbor?

With the word there comes a sense of leafy shade on a summer day, of vagrant winds, sweet with all outdoors, of insect noises, of flickering wings and the importance of bug hunting and nest tending and whatnot; and above all else, freedom from the everlasting impositions of conventionality as represented by a





Where an individual plant needs support a trellis may serve a good purpose. But a random scattering of detached trellises should be avoided in every case. Unity of design there must be

Another use of trellis is found in the residence of J. R. Potter, Esq., Great Neck, L. I. Here it incloses a pleasant outdoor living room under trees. Paul Hertwig was the architect

house. Pan and his court lurk sometimes near, if not within, the shadow of an arbor, but they never approach a house.

There must be nothing about an arbor to dispel this sense of freedom, nothing—continuing the fancy—that will alarm the timidest faun or nymph, or make them fearful of imprisonment. Yet it must be a shelter and afford seclusion from the sun and heat; and even possibly from a little summer shower, though certainly not roofed to withstand real rain. Where rain cannot go, dryads and satyrs never will!

Then it must be so open that birds and bees and breezes may come and go at will; and it must be so completely in harmony with nature all around that both bees and birds will frequent it as freely as they do the trees. Within these specifications it may take any form and be made of any material one wishes; and it may be situated wherever the natural landscape, or a preconceived picture, may determine. But it must always follow the architectural lead of the bouse.





The true arbor is never roofed to withstand a real rain. Its very nature demands that it be open for free passage of bird or bee or breeze

A sense of leafy shade on a sunny day, of freedom from the imposed conventionality of a house, should characterize the well planned arbor



Ever since Moses struck the rock garden makers have built wall jountains. This is at the home of Earl P. Charlton, Westport Harbor, N. Y. Farley & Hooper were the architects

Peering from the ivy that drapes a stucco wall is a satyr's head fountain. It is on the grounds of the H. A. Rogers place at Tuxedo, N. Y. Walker & Gillette were the architects





The wall fountain can be treated in an infinite number of ways. It may be a sharp contrast to its background or, as here, be identical in tone and material. Walker & Gillette, architects

To balance the statue, in the garden below, is a wall jountain also placed in a niche. This is in the garden of Herbert L. Pratt, Glen Cove, L. I. Jumes L. Greenleaf, architect



## THE AXIS IN GARDEN DESIGN

Simple Principles and Rules Upon Which the Landscape Arrangement Should Be Based, and an Example of How They Are Applied

No garden can be truly successful if it witfully violates certain simple rules of design which should be carefully considered before a spade is turned. Its beds and borders may proceed from month to month with the most delightful effects of color and mass; its walls and steps and architectural ornament may be executed with skill and exquisite taste, yet it will remain a meaningless array of misplaced beauty if it lacks the essential relation it should bear to its surroundings, and if its various parts want a proper coordination to bring them into focus and to give them their inherent value. It will be rather like a marionette without strings.

Stripping off all artistic vagueness and getting right down to the bones of garden design, we find that in this case the strings are nothing more than the center-lines or axes; and that a proper arrangement of these, one to bring into a convincing and logical relation to the garden the surrounding natural and architectural features, is the skeleton of the scheme. Upon this structure of strings that ties the garden to the house and to the dominant natural growths of the site, the actual plan is

made.

A graphic illustration of the evolution of a garden scheme is given in the accompanying series of plans. These show the development of the axial lines and, by means of them, the subsequent development of the garden on a place of moderate size where the character of the ground is consistently level and unbroken throughout. Plan 1 represents the house and site before any center-lines are drawn and a final arrangement seems correspondingly obscure. The letters on the plans mark the several features of the property that must be taken into consideration in order appropriately to locate and design the garden. Thus "A" is the house of which the extremity of the south wing is a loggia or built-in porch opening upon a cluster of closely grouped trees. cates the most suitable spot for the flower garden, "C" the open lawn space, "E" the vegetable garden, "F" the tennis court and "G" the garage. The disposition of these various elements of the plant is arrived at by a study of the adaptability of the ground for each. Thus, it is desired to reach the garden through the loggia, but as there is a greater wish to keep the space on the east front of the house in open lawn, and as the space just off the loggia to the south is far too shady, it seems best to place it at "B" as shown. Then, at "D" the vegetable garden will connect with the service portion of the house and, at the same time, balance the flower garden on the opposite side. This leaves a place east of the gardens and the lawn for a tennis court and completes the sketching in of all the spaces that lie in some relation to the garden.

As yet there has been no definite tying in of these various elements. The gardens, lawn and tennis court have been apportioned to their proper places, but there has been no attempt made to shape them up or to connect them to the house or to each other. To do this it is first necessary to draw in the axis lines of the house group as in Plan 2. This house plan being simple and symmetrical, its axes will bisect the plan in either direction; the main axis, 1, cutting the principal faces of the building and the secondary axis, 2, cutting the less important faces at the ends. These center lines must form a right angle with whatever face of the house they happen to cut. Axes are drawn through the garage and kitchen yard to help in the development of the service portion of the grounds. The approximate location of the flower gar-

den having been already determined, it is now necessary to devise a system of axes upon which it may be developed more precisely, and by which it may be convincingly connected

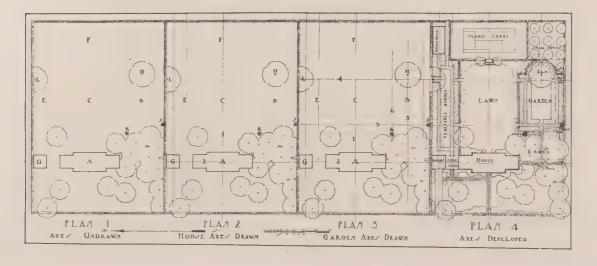
with either one of the house axes. As there is in this instance no unusual characteristic in the topography of the site or an existing minor bit of architecture from which to get a start we must use the trees. Of all those on the property only the ones designated by letter are of sufficient individual excellence to warrant their inclusion in the scheme as units in the design. A high arching elm is marked "H", two well developed cedars "J" and "K", and a nicely proportioned white oak "L". As the elm, "F", might serve as the keynote of the garden and as it is just about halfway between the property line and the edge of the space allotted to the lawn, a line, 3 on Plan 3, is made to bisect it and, furthermore, to intersect the secondary axis of the house with a right angle.

We now have the main center-line of the garden and have it connected with a center line of the house, but we want something more than a backbone and we want to tie in also, if possible, the two cedars and the white oak. The cedar, "G", and the white oak are readily worked into the scheme by connecting them to the established main axis of the garden by

lines 4 and 5.

The next step is the shaping up and the adding of flesh to the skeleton. In plan 4 we see how the different elements of the scheme have been proportioned and how the paths and boundaries have been located by means of the axis lines previously sketched in. The cross axis of the house, line 2, formed the basis for a path from the loggia to a pool in the paving of the path, marking the intersection of the main garden axis, then on to a seat, where it terminates at the high boundary of the property line.

It is largely a matter of taste whether or not to mark with some ornament the intersections of the cross axis, lines 4 and 5, with the main axis of the garden. They have served their purpose in defining to some extent the limits of the garden and in creating the cross lines. Line 6, tying in the cedar "K", has become the reason for the longitudinal path on the north side of the garden and the corresponding one along the south side.





## VISTAS IN THE GARDEN

THE primary purpose of a path is to lead one somewhere. Thus was it in the beginning, is now, and, so far as one can foresee, will indefinitely remain.

Yes, a path must go somewhere, if its existence is to be justified. It should possess a destination not only in the physical sense, but in the mental as well. In other words, the ideal path carries one's eyes as well as feet from here to there. It is a vista, more or less pronounced according as it is straight or winding.

This vista quality is one of the chief assets of an attractive path, for vistas in the garden there must be. Without them we feel confined, shut in by too near boundaries of flower, shrub and tree. Our imaginations, together with our eyes, have too little to feed upon where there is no guiding sense of distance. We need the contrasts and comparisons provided by a receding view.

A vista need by no means be as ambitious as the two examples shown on this page. It may be no more than a glimpse

between two flowering shrubs to a garden seat a dozen yards away; or a bit of distant mountain seen through a gap in the boundary hedge Yet it must always be justified—generally by



Creating a successful vista is a matter of real study. Keep in mind that the object is to draw one's attention directly to some goal more or less distant

the existence at its far end of some object which serves as a definite goal for the eye.

Rules for planning vistas can be no more

than suggestive, as the conditions and possi-

The vista's purpose is to lead the The vista's purpose is to lead the eye into the distance. Here on the estate of Harrisson Bennett, Esq., at Weston, Mass., this effect is achieved by the straight line and contrasting color of the central walk

bilities of different places are rarely identical. Keep in mind the general principle—that a vista is a more or less narrowed glimpse into the distance, gaining its effect through the contrast of near and far objects.

Two mediums may be utilized in framing the sides of the vista, for distinct sides there should be in the majority of cases. The first is architectural in character, exemplified by the pergola, the gateway in wall or fence, the pillars of the covered terrace. The second, and by far the more generally available, is the planting of trees and shrubs. Here lie the biggest possibilities, the best chance to attain success with the minimum of labor and expense. Growing things are Nature's frame, ready to your hand.

Work for perspective in the plan of your garden or grounds. If there is even an indefinable feeling of undue restriction, of overcrowding, look about for vista possibilities. It is not all of landscape

planting to plant; more frequently than most of us realize the solution of our difficulties on the road to garden perfection lies in elimination rather than addition.

It is often advisable to break the garden vista with the occasional relief of an arbor. This is done on the Newport place of Mrs. Hugh D. Auchincloss, where fluted columns support the arbors in the rose garden and lattice affords a background for climbing roses. The long graveled path ends in a rustic gate and a vista of sea and sky





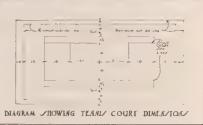
The garden vista is usually accented by a path which forms the major axis in the garden design. Where it crosses other axes the spot can be marked by a sundial or bird bath. In the gardens of Mrs. John S. Newberry at Grosse Pointe Farms, near Detroit, the path leads the eye to the pergola on one side and the tangled fields





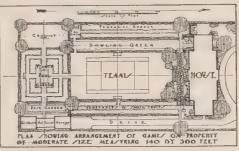
The tennis court should have adequate backstop and side fences. These may be well masked by planting. William Pitkin, landscape architect

## GAMES and the LANDSCAPE SCHEME



Croquet has come into its own again as a country home game. It requires a space only 30 by 60', including the boundary lines of planks set on edge

Lawn bowling is one of those games too seldom played, perhaps because it is not well known. It calls for a smooth, sunken alley 10' wide and 60' to 125' long



The single and double tennis courts are the same size except for the additional 4½ alleys on either side of the latter. Turf, clay or concrete is the usual playing surface

For the golf enthusiast there is the game of clock golf, utilizing a putting green with consecutive playing positions corresponding to the figures on a clock's dial



PLAN OF TYPICAL PRIVATE DOWLING GRIEN .

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  \*\* TENGLA LO DE DILENNACO EN VAN "SPIT NAVIO. 
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The playing area, whether for tennis, croquet, bowls or what-not, should form a definite part of the landscaping scheme. The best plan is to include it when the planting design is first worked out. These game centers were designed by Richard H. Pratt, 2nd. Landscape Architect



## A PORTFOLIO OF BEAUTIFUL GARDENS

Being Views of Many Types of Gardens in Various Sections of The United States, England and in Italy





## THE LANDSCAPE PICTURE

To complete the natural setting of the residence of Frank B. Wells at Burlington, Vt., pine trees were moved near the house, thus filling out the picture begun by the natural woodland of hardy pines on the bluff before it. Ralph M. We.nrichter was the landscape architect of the place



(Above) Seen from an airplane, the gar den of "Knollwood", the home of Mr. Charles I. Hudson, at East Norwick, Long Island, presents the full beauty of its Ital ian plan, taken from designs brought from Italy in the time of François I. The first terrace is a blue garden, and each plot below has its own color scheme surrounded by hedges. Hiss & Weekes, architects



(Left) In the older days, a garden had its portrait sketched in what was called a b.rd's-eye view. The fashionable garden of today has its photograph taken from a hovering airplane. This lovely garden at "Meudon", the home of Mr. William G. Guthrie, at Locust Valley, Long Island, is planted with a great variety of evergreens. C. P. H. Gilbert, architect

THE COMPLETE GARDEN PLAN IS BEST SEEN FROM THE AIR



From the lily
pool one can look
up the grass
paths between
the orderly beds
to the house

ONE should not come upon a formal garden too suddenly. The way to it should be a gradual progress from the house. This axiom is beautifully illustrated in the garden at the home of Dr. J. Henry Lancashire at Manchester, Mass.

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From the grass terrace before the house—a terrace worked out by a stone wall and accented with pottery jars—one passes by slow degrees along grass walks down to the lower level of the garden. Here are tormal beds brilliant with color the season through. The main

THE GARDEN of DR. J. HENRY LANCASHIRE MANCHESTER, MASS.

MRS. WM. A. HUTCHESON, Landscape Architect

Standing on the terrace before the house one catches this glimpse of the garden and its setting

axis terminates in a semi-circular lily pool held in a stone

curbing.

At this point the ways divide. On each side stone steps lead to a pergola so heavily bowered in vines that one does not at first suspect it of being a pergola. This forms the excdra or termination of the garden.

Behind rises a rock-ribbed hillside heavily forested. The garden, then, is like a jewel of many colors in a setting of woods, its formal lines and varied colors contrasting with the rugged character of the immediate surroundings.



A perspective view shows the design of the beds, the pool and pergola covered with vines

On either side of the pergola steps are large clipped bay trees. The border planting under the wall includes bright poppies and stately lilies, primroses and Solomon's Seal, peonies and tris, with spireas and tall roses a gainst the wall and climbing roses above.

The formality of the garden is accounted for by pyramidal box specimens placed at regular intervals along the edge of the middle

path and the box by which the beds are bordered. In the beds are all the well-loved perennials and some annuals—delphinium and digitalis, Campanula, iris, daisies, snapdragons, peonies, poppies, feverfew, heliotrope. Phlox, that splendid color contribution to any

garden, has been judiciously and effectively used in various shades of pink and white.

This is a walled garden, the forest at the upper side being cut off by a high retaining wall covered with vines and apple trees on espaliers. Beneath the walls are hollyhocks,

Little side paths lead to hidden glimpses of great loveliness in color and profusion of blossom

small roses, iris and buddleia. The lower wall of the garden is not so high because—and this is the surprise!—the slope below it stretches down to the sea.

Bisecting the garden are two paths, at the end of which are pretty garden ornaments—bird baths and satyrs looking out from a bower of roses, an old stone well-head, and benches set in shady, secluded corners among fine plantings

of rhododendrons and grapevines.

The sea beyond, the rock-ribbed hills behind; inside these walls, comfortable formality, soft grass paths, touches of statuary, a lily pool mirroring the sky and color from early spring to the first frost of autumn.



IN THE **GARDENS OF** MISS ROSINA HOYT

SOUTHAMPTON, LONG ISLAND

FERRUCCIO VITALE Landscape Architect





Between tubbed hy-drangeas steps lead up from the lawn to the vine shaded coolness of the pergola

Full consideration has been given to the effectiveness of unbroken lawn spaces stretching down from the house to the formal tily pool and bounded by massed evergreens whose variety and arrangement are especially worthy of attention. Hiss & Weekes, architects of the house

The reverse of the view at the top of the page shows the Italian summer-house with its flanking pergolas, the whole a fit setting for the pool. The aquatic planting has been kept trim, that the water itself may fulfill its mission as mirror of the sky, the clouds and the surroundings



## AN ORCHARD THAT IS A GARDEN TOO

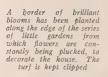
On the Place of Egerton L. Winthrop, at

SYOSSET, L. I.

DELANO & ALDRICH
Architects



Formality and graciousness are cleverly combined in the little rose g a rden with its close clipped box outlining the beds. A small marble statue surrounded by roses marks the centre







### A HILLSIDE GARDEN IN MASSACHUSETTS

The original garden site was a steeply sloping meadow. This was broken by walls and the terraces graded down. The walls gave a background for beds of hardy perennials. The steps are accented by English boxwood trees. Water plants grow in the long pool. From the verandah one looks down into the garden as into a bowl of flowers. This is on the estate of Barton Crocker, Fitchburg, Massachusetts, of which Prentice Sanger was the landscape architect





Against solid walls of dark yew have been grown specimen statues carved in juniper. This forms the termination of the canal, and is placed in such a relationship to the water that the sombre coloring of the yew is intensified, and the light tones of the juniper made still more lovely. The garden was designed by Mr. Romaine-Walker

## AN ENGLISH TOPIARY GARDEN

In a Slight Thirty Years This Garden Has Been Grown— It Rivals Some of the Most Ancient Gardens of England

HALF-WAY between the formal, architectural garden of Le Notre, the garden of which Versailles is the splendid model, and the so-called "English" garden, with its less geometrical pattern and its absence of architecture, stands the topiary or sheared garden.

The builder and the

The builder and the architect had as great a hand in the making of a formal garden as the horticulturist. Terraces, statues, walls, and arches were more important in these elaborate creations than growing plants.

The topiarist makes the best of both worlds. He is both builder and architect, but the materials he uses are living trees instead of inanimate stone.

Where the ordinary gardener must necessa-



On a dry, arid bank is a thick plantation of laurels, clipped to an even surface, while at the top come the finer foliage and forms of yew. The way leads by these stone steps from the forest up to the level open stretches of the garden

rily work in irregular broken masses, the topiarist can employ straight lines, plane surfaces and all the forms of solid geometry. At the same time his green masonry has this advantage over the architect's stonework, that it is alive and diversified by the innumerable intricate details of a living organism. A flat surface that is composed of countless little leaves is more interesting, richer in quality than the flat surface of a stone in laying out, etc.

In laying out this topiary garden the designer has made some interesting experiments in color variation—yew, juniper, Irish yew, laurel, golden yew, box, and ivy have been mingled so as to relieve the unvaried sombreness of the plain yew hedge.



The garden at "Glenwood," home of Mrs.
T. B. Wilcox, near
Portland, Oregon, is
laid out in a meadow
with towering for
trees for a background. A wall of red
brick surmounted by
a white balustrade
encloses the garden.
The borders are
planted with perennials



Half encircled by the curved pergola and protected by the surrounding woods, is the lily pond. In this climate of Oregon only a few weeks intervene between the last blooms in December and the early flowers which open in February. The water in the lily pond is rarely frozen

A WALLED GARDEN IN THE NORTHWEST

L. M. THIELEN, Landscape Architect



#### THE TWO GARDENS

There are always two gardens—the garden in full sunlight, when every flower and tree limb silhouettes distinctly, and the wraithed garden seen in the white mists of dawn, the mauves of dusk or late on summer nights patterned over with silver from the moon. For the beauty of color watch the garden in sunlight; for the beauty of subtle tones and

delicate atmosphere study the wraithed garden. Such is this view in the garden at the home of Herbert N. Straus, Red Bank, New Jersey, showing a glimpse of the broad stone step leading up to the tree-shadowed terrace. The landscape architect was Martha Brookes Hutcheson and the associate architect F. Burrall Hoffman, Jr.



These four views are of an English walled garden, a garden set on a hill exposed to winds that made walls a necessity. The garden is on the place of Mr. Thackeray Turner, near Godalming, Surrey

### AN ENGLISH WALLED GARDEN

(Below) From the seat in this sunny recess in the wall one can see through an arch into the garden behind. This arched niche promises a windless spot where one could sit in cold weather



When the sun becomes overpowering one may retire to a little stone porch that makes a cool oasis in the midday heat. Contrasted with its shadowed darkness is the blaze of Shirley poppies



A garden architecture that shall seem a natural outflowing of the earth is the ideal of Mr. Turner's school of landscaping. These walls are of rough-hewn stone fledged with plants



Fortunate is the gardener who can include water in the planting picture, even though it be but a glimpse, as here, through an opening among trees



A GARDEN NEAR WATER. THE PLACE of J. KENNEDY TOD

SOUND BEACH, CONN.

MARIAN C. COFFIN Landscape Architect

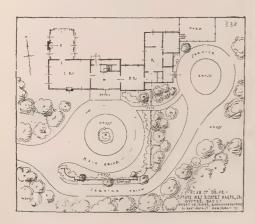
Madonna lilies and Japanese iris are grouped side by side in the beds around the turf circle. Boxwood is used throughout to outline the beds



On this place, the estate of Mrs. Robert Hager, Jr., the problem was to plot the drives and planting so that the service end of the house, which is on a lower level, could be easily reached. A latticed forecourt solved the problem

## A LATTICED FORECOURT AT OYSTER BAY, L. I.

PRENTICE SANGER, Landscape Architect



The house stands on the brow of a hill and behind it the land drops about 6' below the level of the forecourt. This accounts for the contour of the drives and the arrangement of planting

A direct route from the front drive to the service door is gained by a path that leads through an arched gate. This is a charming glimpse of the gate and its attendant shrubberv



The foliage of trees forms a background to the brick wall, which encloses the formal garden with its pool mirroring the branches and sky, its stretches of turf and flagged walks. It is an ornate creation in a rugged setting—each the richer by the contrast

### A WALLED GARDEN SET IN THE WOODS

On the Place of Henry G. Lapham, Esq., at Brookline, Mass., Has Been Made a Formal Garden of Great Distinction

THIS garden was designed to serve as an adjunct to the house. The problem was a difficult one for the reason that the main grounds were purposely left in a natural state, the only artificial element being the garden proper.

This is surrounded by a brick wall at the rear of which is a natural park where fine trees and shrubs with effective ground cover are planted to good advantage and where many wild flowers are encouraged to grow and blossom. The background of trees brings out to advantage the brick wall with its topping of cement and proves an effectual wind-break.

Leaving the house proper, one treads a stretch of soft green turf, which is the central feature of the upper garden. This follows the gradual slope of the land and is surrounded by by-paths that lead down to broad steps. Boxes filled with yellow pansies, vincas and purple pansies stand at regular intervals.

The planting is especially interesting. It is mainly evergreen and includes spruces, hem-

locks, junipers, dwarf evergreens, cactus and Japanese pines, together with broad leaf evergreens such as rhododendrons and leucothoes, with good ground covers planted beneath. There are pansies, blue, yellow and white, and violets, mingling with some of the native lilies.

#### The Garden Proper

This prepares us for the garden proper, which is laid out like a great painting on the landscape. Passing down the step we enter a wide flag walk with the grass growing between the stones. Along the terrace wall, dividing the two sections of flowers, are lilies, double hollyhocks, iris, lupins, asters, single sunflowers and monkshood, as well as evergreens, deciduous trees and Japanese maples, most of which are planted for winter effect.

An oval pool has been placed in the center of the design. To break its severity, there have been introduced baskets of fruit. Vases and stone lions are introduced, on the rim. Low benches stand conveniently nearby, and beyond

is the exedra of the curving garden wall.

At the left and right of the pool are rectangular flower beds with small borders of

Japanese barberry, and at the extreme right in the upper corner, is an attractive little teahouse, or gazebo. Another summer-house is found on the right of the garden wall.

The beds at the left of the water garden are planted for a succession of bloom, and although this is essentially an early summer plot, yet there are blossoms until frost. Pansies, violets, iris, peonies, marigolds and snapdragons, together with baby's-breath and monkshood, have been planted here. Against the wall are fine specimens of buddleia. As an edging plant pachysandra has been used, and sedum chosen to outline the lower wall.

Near the gate that leads out to the surrounding ground hollyhocks have been planted for color accents, while vincas, pansies and baby's-breath grow in and around the barberry hedge. Near the house and outside the wall are massed plantings of hardy shrubs.



From the house the garden stretches out in its broad areas of turf and border planting with well-kept walks and statuary set at regular intervals to act as accents



Along one of the side walks is a little roofed rest house hid away in a profusion of flowers. Here one can take shelter from the hot sun or a sudden shower





The decorative value of vines against a wall of dazzling whiteness is shown in this garden of Mrs. John C. Phillips at Beverly, Mass. They hang in projusion over the balustrade and clamber up from the border of perennials, making a charming background for the quaint old statue of St. Francis that surmounts the bird bath and fountain

Most successful is the arrangement of this garden with. The dark background of luxuriant trees, the rich beauty of the perennial borders, the accentuating potted hydrangeas, all lead up to and enhance the delicate grace of the little Diana at the end of the path. This is a bit of the garden on Mrs. Gordon Abbott's estate at Manchester, Mass.



It's a far cry from the humble "swimmin' hole" of bygone days to this regal pool set amid the formal beauty of graveled walks and far-stretching lawns and surrounded by majestic trees that cast their shadows in its mirrored depths. The effect is one of unusual simplicity and dignity. It is on the estate of Mrs. Gordon Dexter, Beverly, Mass.

# AN INTERESTING GROUP OF NORTH SHORE GARDENS

This might be the corner of some garden in Italy. Italian is the wall fountain of white marble, exquisitely carved and effectively placed in a setting of contrasting brick. The marble balustrade and graceful urns, also reminiscent of Italy, have for a background, most Italian of all, the imposing beauty of Lombardy poplars. Mrs. Frank P. Frazier's garden, Manchester, Mass.





IN THE GARDEN of MRS. F. L VARING

PASADENA, CAL.

MYRON T. HUNT
Architect

(Left) An old-world charm hovers about the garden where lofty Italian cypresses majestically lead the way up the brick steps to the balustraded terrace which surrounds the house







At the other end of the house, one is lured on by the sweetness of climbing roses to walk through the beautiful pergola between rows of box-plants, and find at the end that one has come to the formal flower gardens, beyond which lies a sparkling pool

# IN THE GARDEN OF JAMES PARMELEE, Esq. WASHINGTON, D. C.

CHARLES A. PLATT, Architect Mrs. ELLEN SHIPMAN, Landscape Architect





The feathery foliage of arborvitaes and the richer green of boxwood edging stand out in marked contrast to the lines and color of the brick and cement wall

Approaching the garden from the side, five steps lead down from the higher ground, From them the axial walk leads to a pool and fountain in the center

Save for the rough flagged smaller pathways, it is a brick walked and brick walked garden. Pleasantly relieving shadows are cast by the projecting bricks in the wall, which are regularly arranged





Nothing disturbs the dignity of space in the view from the terrace, and this simplicity of treatment makes it all the more impressive. Graceful swans swim hasily on the long pools, and the close-clipped hedges and the tall trees beyond give a sense of unreality to the picture, so perfect is the setting

(Below) At the end of the poplar walk, there is a rose garden with a circular pool and a fountain, exactly as it should be. Sweet-smelling box outlines the beds, and pungent eucalyptus trees border the grounds, giving an atmosphere of seclusion and creating a graceful background



Charming in the sunshine that filters through the trees by day and a place of veritable enchantment in the monlight is this architectural bit of the garden with its interesting statuary and its balustrades

SERENE ENCHANTMENT REIGNS in the GARDEN of MR. GEORGE A. NEWHALL at HILLS-BOROUGH, CALIFORNIA

LEWIS P. HOBART

Landscape Architect



It looks down upon a mighty panorama framed by the Sierra Madre Range. Silver Lake stretches below. Charles G. Adams, landscape architect

ELTINGE'S GARDEN

LOS ANGELES,

So precipitous is the site that the grounds resolve themselves into seven gardens of individual atmosphere, on seven connecting different levels





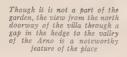


From the orchard one looks toward the lemon house through whose arched passageway is a glimpse of the garden beyond. The lemon house forms the south boundary of the garden and gives ample protection to the shade-louing plants which are growing in its lee



At the intersection of the main axes is a little well with a stone curb and iron railing. Beyond are the arch of the lemon house and the walk which leads into the orchard

The view across the garden from southeast to northwest shows two of the accenting palmetto trees and a corner of the villa beyond. The arrangement might be called informally formal



THE GARDEN OF THE VILLA SAN MARTINO NEAR FLORENCE, ITALY

## A NEW ENGLAND GARDEN BY THE SEA



In front of the house a long stretch of ground has been converted into a formal garden. A Druid feeling is given by an old wooden sundial set in a circle of turquoise and flame slate flags, with curved stone benches and bay trees on either hand in symmetrical arrangement







#### FOR THE GOOD OF HIS BODY

For the good of his body and the cleansing of his soul every man should go into a beautiful garden at least once each year. He should let its beauties seel through his pores, its scents sooth his nerves and its vistar re-focus his vision. Let him sit still m such a garden for an afternoon, and he will come back clear of eye, laughing, contented, at peace with

himself and the world. Such a garden is this, which is at Ashbery, Mass., the home of Mrs. J. P. Lyons. Here are lawns patterned with the shadows of great trees; here are paths winding between masses of colorful blooms; here is a white-balustered terrace under the shade of friendly trees. Here also is a Presence greater than man



(Above) That one of the series of pools which lies nearest the little guest cottage is about three feet deep and its stocked with trout. Above it is a lily pool, and below has been built a deeper and larger one for swimming. The boulder garden and cottage are part of the property of Mrs. Emma Flower Taylor, of Watertown, N. Y.



(Left) The main staircase of the garden, where the rockwork shows to splendid advantage. The landscaping is all in accordance with the geological characteristics of the surrounding country, the stones themselves being markedly stratified and including some specimens of very old Azoic rock. Little planting is used here

#### A GUEST HOUSE and a BOULDER **GARDEN**

W. MAREDYDD HARRISON Landscape Architect

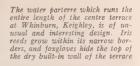


(Above) The water-garden at Bridge House, Weybridge, the residence of Mrs. Trower, is a canai ending in an Italian tea-house flanked with creeper-clad columns. Water-lilies, kept well within bounds, enrich the reflections in its clear depths. Designed by Mr. Harold Peto



(Left) At the end of the lower terrace in Mr. Prince Smith's garden at Whinburn, Keighley, lies this pool. White Valerian grows in the dry bank, but nothing breaks the calm surface of the water save two sparse clumps of reeds. Designed by Mr. O. Maxwell Ayrton

The arch forming the inlet to the water parterre, n the illustration below this, is built in dry stone. The treatment of the curb, which is edged with flag-stones, should be noted, since it avoids a too sharp edge in an ingenious manner







(Below) The octagonal pool in the centre of this sunk garden is a striking contrast to the formal design above. Funkias, muscanthus, and other reeds grow in opident masses round its borders. This garden is at the residence of Mr Thackeray Turner, Westbrook, Godalming

## WATER IN ENGLISH GARDENS

(Above) This formal enclosed garden at Westwood St. Dunstan's, Mayheld, Sussex, is a welcome escape from the restlessness of the hillside landscape. Clipt yews emphasize its long lines, and a cock guards the entrance. The ornamental vases are from a design by Christopher Wren





For the purpose of screening a tennis court on the adjoining property, a section of the north garden was given a pergola background. It is painted gray green. The brick walks are bordered with box and the flowers are, for the most part, annuals—snapdragons, larkspur, phlox and such. On the outside are small evergreens and a dense growing arborvitae hedge

THE GARDEN

of

H. G. DALTON

CLEVELAND, OHIO

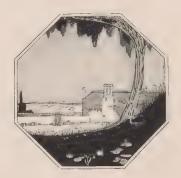
ABRAM GARFIELD

Architect

Beds of roses are at this end of the garden, with peonies on the sides and arborvitae. The marble sea and four columns that form the exedra of the garden were brought from Florence. Ramblers are trained over them. Behind these columns arborvitae forms a thick hedge shielding the gar den from the street

## THE YEAR'S WORK

Including The Gardener's Calendar, Planting Tables, Spraying Charts, and The Procedure for Making and Maintaining Gardens



# Lime will benefit almost all garden soils, and is essential for those which are acid A garden fork is the best implement for spreading manure. This is the way See that the manure is scattered evenly over the ground to be fertilized, beto use it fore digging it in A fork is used to break the earth lumps The state of the s weight of your well as foot to How to hold a rake for smoothing the soil preparatory to planting Label each row of seeds when you plant it, and use a measuring stick for regularity To make a "drill" for beets, parsnips, etc., turn the hoe blade on end Small seeds like carrots need a shallow drill, made with a pointed stick

#### BUILDING the GARDEN

Making Sure of Results by Laying a Firm Foundation—A General Summary of Important Details

ALTHOUGH the beginner at gardening may not realize it, the making of a garden is not unlike the building of a house; good materials are essential, but the ultimate results hinge upon making the foundation right. Good seeds and a good plan for the arrangement of the different crops are, of course, important; but alone they do not by any means assure satisfactory results. Years of practical experience, or else the closest attention to every detail of preparation and planting, are necessary to give the garden a strong start toward real success.

The preliminary work—what to do to the soil to make it capable of producing big crops—is the first essential. The next problem is how to set about getting these big crops out of the soil. With this part of the foundation of our garden building laid, what comes next?

To make the whole matter as plain as possible for the uninitiated, let us take up the matter of soil preparation and planting not in a general way, but in detail, item by item in proper order.

Let us assume, therefore, that the garden has been plowed and harrowed and thoroughly enriched with manure or fertilizer, or with both. Possibly there has been a long, beating rain which has made the surface compact and hard again; or a few days of wind and sun that have left it crusted and baked on the surface.

The very first step is to prepare, for receiving the seed, as much of the garden as we expect to plant at the first sowing.

This is quite a different operation from merely having the garden plowed and harrowed or spaded up—as different as putting on the ceiling boards or laths and plaster is from putting up the rough studding that is to support them. Perhaps our planting instructions say to "rake the soil off nice and smooth with a garden rake"; but if the soil has lain for some days in a beating rain or in bright sunshine after plowing and harrowing, ordinary raking will have very little effect upon it.

Get out the wheel-hoe and put on the plain, vertical cultivator teeth—all of them, and evenly spaced. With this you can make a cut 1' to 1½' wide. Mark off roughly the part of the garden you are ready to plant and go over it with the wheel-hoe, a strip at a time, until the entire surface is loosened up. It will be pretty stiff work, but not nearly as hard as trying to do it with a rake, and you will accomplish several times more. If your garden is so small that you have not a wheel-hoe, then you should get one of the adjustable cultivator-tooth rakes or hoes which are now on the market. These, of course, have no wheels, and are pulled instead of being pushed like a wheel-hoe. But they will do good work, although not quite as fast or as easily as a wheel-hoe. You should have one or the other.

Whatever the tool used, the object is to get the surface thoroughly loosened up again to a depth of several inches. If no other tool is available, you may have to do it with an ordinary hoe or with the spading fork.

When this work has been done, we are ready to use the rake. And the next thing for the beginner to learn is that this implement is not to be used in the same manner as it would be in raking grass.

In the latter case, the object is to rake up everything there is on the surface of the ground; in the garden, to rake up as little as possible. In preparing the garden, the rake is used primarily for leveling the surface, and only incidentally for gathering up such pieces of manure, small stones, plant stems and other useless rubbish as may be on the very surface of the ground. The rake, then, should be used with a backward-and-forward motion to level down all ridges and fill up hollows, and lightly remove any loose trash from the surface, leaving a perfectly level, fine, moist strip of ground ready to receive the seed.

The next step is to mark off the first row. Don't just go ahead and guess at it. It will probably not take over ten minutes at the most to get it perfectly straight and parallel with or at right angles to the edge of your garden or the side of the house or the sidewalk—whichever is the most natural line to go by in laying out your garden. That first row will determine the general appearance of the entire garden; make it straight and true.

If you have a right angle to make, here is a simple method of determining whether you have it exact or not. Measure off 6' from the corner along one line, and 8' from the corner along the other. If it is a true right angle, the diagonal between the two points should measure exactly 10'. If it does not, you can adjust one side or the other until the angle in question is a true one.

The actual getting of the seed into the soil is the next thing to be done. There are four distinct kinds of planting: in drills, in rows, in hills, and transplanting or setting out plants which have been started from seed sown indoors or in the hotbed.

"Drills" are plants grown in a continuous row so close together that no effort is made to have them at regular distances, or to cultivate between the individual plants. Radishes, spinach and many other things familiar to everyone are grown by this method. "Rows" signify that the plants are set at regular distances apart, but so close together that cultivation is done only in one direction, except for the use of the hand hoe or rake. Cabbages, peppers and potatoes are familiar examples of vegetables grown in rows. By "hills" is meant the setting of the vegetables so far apart in both directions that cultivation is given both ways, and each group of plants or "hill" is treated as an individual unit. Familiar examples of vegetables grown in this way are melons, sweet corn and pole beans.

melons, sweet corn and pole beans.

Most of the vegetables planted in drills are root crops and do not need very much space between the rows. If the soil is poor, a handful of ground bone along the bottom of each

20' of drill is advisable.

A thorough manuring and fertilizing of the whole area planted is worth while before sowing vegetables in rows, with a little extra where each plant is to be. Hills are usually enriched as units. The soil in them should be especially prepared for a space of 18" to 24" across and 6" or more deep.

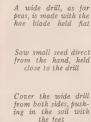
All this preliminary work with the soil has a definite bearing on the size, quality and general development of the vegetable crop. As to the dates and depths of planting, the quantities of seed for given spaces, and other specific details about the various things ordinarily grown in the home garden, a tabulation will be found in the vegetable guide on another page of this book.





Onion sets are planted in drills. Put them about 2" apart in the row











The back of a wooden rake is excellent for covering shallow drills

Then turn the rake as shown at the right, to firm down the soil

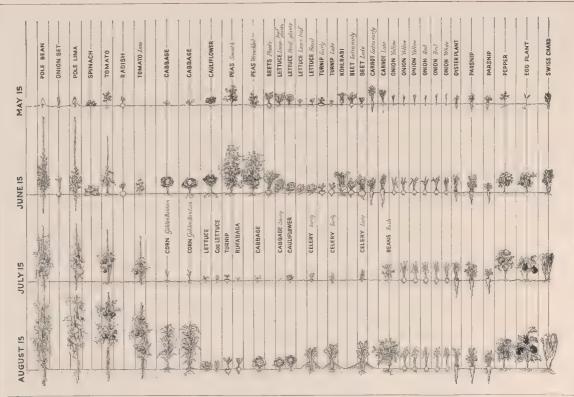
Use a wooden rake for the final smoothing of soil before sowing



(Below) Use a board to stand on, so as not to make tracks in the soil







The first 50' of the planted area, in which the short season crops are so arranged that when they are harvested their places will be taken by plantings of others. The grouping of the pole beans, corn and tomatoes at one end eliminates the hindrance which their shade would be were it to fall on the smaller growing vegetables

## THE FOUR STAGES of the GARDEN

A Graphic Portrayal of What Cross Sections of the Vegetable Area Should Be at Monthly Intervals During the Active Growing Season

VISUALIZING a whole vegetable garden is no easy task—real visualizing, that is, in which a worm's-eye as well as a bird's-eye view of each and all the rows is presented. Difficult as is the undertaking, however, it must be attempted if you would have a garden of one hundred per cent productiveness, for the simple reason that all of the ground must be kept working all of the time. There must be no waste of either time or space. To accomplish this a knowledge of each row's condition throughout the season is essential; hence the necessity for visualizing.

All this may seem an unnecessary sort of exploitation of orderliness, but those who have had much experience in gardening know the dire consequences of trying to raise vegetables on a hit-or-miss plan. Not only does the disordered garden spell small yields and waste of seed as well as space, but its very disarray puts a premium on neglect. One cannot take much pride in a tangle of beans, carrots and corn interlaced with pea vines and weeds, nor gather full crops from its jungle depths. Disease and insect pests flourish unchecked in such a garden, too often extending their depredations to the neighbor's domain across the fence and causing him unwarranted loss.

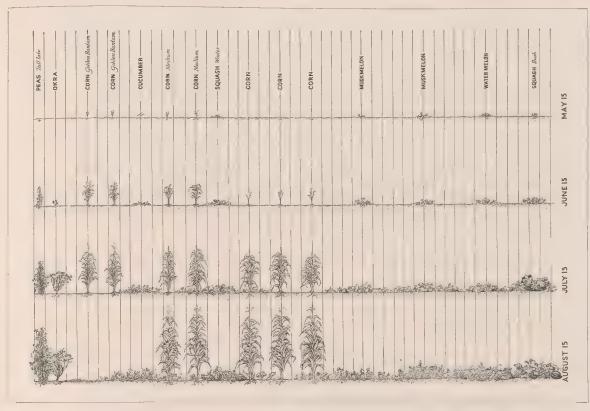
In depicting garden layouts the usual method is to show a ground plan of the arrangement as it appears from above. However detailed and explanatory such plans may be they are not really graphic—they lack the worm's-eye perspective. In an attempt to overcome their deficiencies the garden chart shown here was developed.

Imagine, for the moment, that it is May 15th and that you are looking simultaneously at the topmost horizontal line of the chart on this page and down the rows of your vegetable garden-as-it-should-be. You are facing the south, with the east at your left and at your right the west, because the planted rows run north and south for the sake of an even distribution of sunlight through the day. Thus placed you can see only the first plant in each row, but others are beyond, extending in orderly lines for 50' or more like soldiers standing at attention in "company front."

Beginning at the left or east end of the garden, then, you notice that the first 18" of space (each of the vertical divisions of the chart represents 1') are unoccupied. Then comes the first row—pole bean seedlings under portable glass forcers, for the season is early yet and beans need heat. Another 18" to the west is a

row of onion sets, and next to it, at the same distance, the pole limas, also under glass. Spinach, young tomato plants and the rest follow in their order and at proper intervals as you follow the line to the west end of the garden, 100' away at the right side of page 95. The late peas and much of the main corn crop do not show above ground as yet, for they have just been planted. Throughout the whole 100' you will notice that the spacing of the rows depends upon such points as cultivation requirements, the size and habit of the mature plants, and the length of the period through which they occupy the ground.

One month later, on the line below, growth has correspondingly advanced. The first spinach, radishes, cabbage, cauliflower, peas, beets, lettuce, turnip, kohlrabi and carrots are ready for use, and within the next month their places will usually be taken either by succession plantings or sowings of late season crops. In the cases of the onion row between the pole beans and the limas, the spinach between the limas and the tomatoes, and the radishes between the two rows of tomatoes, the growth of the flanking vegetables is such that by July 15th it heavily shades the intervening spaces. For this reason intercrops are chosen which will



Above is the other half of the garden, adjoining that on the opposite page. Two and a half feet is the space represented between the Swiss chard row on that page and the line of tall late peas. The scale of feet is the same throughout both halves of the chart—1' to each of the vertical divisions

be out of the way before this shade becomes too dense.

Certain of the plants shown are, of course, started in "flats" or seed boxes, and transplanted later to the places they occupy on the plan. Among these are the tomatoes, radishes, cabbage, cauliflower and lettuce. The melons and squash particularly should have well enriched soil. A good method of handling them is to plant the seeds late in April where they are to grow, and cover them with portable glass-topped frames which will give them a higher temperature and can be removed as the weather grows warmer and the need for them gradually ceases.

The July 15th stage finds the garden yielding crops while at the same time twenty-odd feet are devoted to newly planted vegetables. These latter occupy the space which has been vacated by the cabbage, cauliflower, peas, early beets and carrots, lettuce and kohlrabi. Here is an example of succession planting, a principle whose intelligent application is essential to the garden of 100 per cent productiveness. "Keeping the ground at work" connotes the maximum yield of vegetables, which can be obtained only by carefully planning for continuous succession.

By the middle of August the whole garden is carrying its full load, for the melons and other vine crops have so nearly attained their growth that they have spread over all the surface allotted to them. The development of the other rows is so clearly shown on the chart that it requires no further detailed explanation here.

A careful study of the allotment of space to the various vegetables will repay, because the distances between rows are the minimum which can exist in the successful garden. Where the available space is less limited, somewhat larger spaces may be permitted, though they will avail little except in making for greater ease in cultivation. In this connection it is well to remember that too wide spaces between the rows give an opportunity for weeds to develop which only extra cultivation of the ground can hold in check.

Another point to note is the grouping of most of the taller and more spreading crops at the ends of the garden, thus leaving the central portion for a concentration of smaller things. The chief reason for this is that the tall growers are mainly long-season crops which cast considerable shade in which lesser vegetables could not thrive. The grouping of the corn and melons results from the fact that these vegetables succeed well in close proximity to each other—in fact, the melons, cucumbers and squashes can overrun the corn rows without detriment to anything concerned.

No provision has been made for the small fruits, herbs or such things as asparagus, which require specially prepared soil in an area all to themselves. For reasons which need not be gone into here it is inadvisable to combine plantings of vegetables and cane fruits. The latter should constitute another garden, or else be used merely around the borders of the vegetable area where their roots will not interfere with the cultivation of the soil in which the

annual plants are growing. The same rule applies to fruit trees; and as for strawberries, they need a section quite their own. The space needed for the herbs, of course, is so limited that they may be planted almost anywhere around the edges where there is an unoccupied bit of ground.

Potatoes, it will be noted, have not been included in this hypothetical garden. While these vegetables are usually the first thing that the beginning gardener thinks of growing, they should by no means be his first actual choice in the majority of cases. Great as has been the popularity of potatoes, the fact remains that growing them has decided drawbacks. Failure to appreciate these has brought about innumerable disappointments, to say nothing of the waste of time, space and seed.

Potatoes cannot be simply planted in any old piece of ground and expected to grow properly. For one thing they need considerable room, as well as prompt and thorough cultivation at the right times. They are subject, also, to attacks by insects which will quite destroy the plants if spraying is postponed or done in a half-hearted sort of way. In certain seasons—sometimes apparently because of the weather, and at other times for no evident reason at all—the plants will be struck by blight which may seriously injure the crop if it does not actually destroy it. For the returns to be commensurate with the labor involved, soil and weather conditions must be right, and you must understand and be able to give the attention demanded.



Complete in two reels—the story of starting seeds, beginning with drainage

The soil is put in and firmed down with the bottom of a glass tumbler or measure

Then the seed is scattered on the surface direct from the containing envelope

The measure comes in again to press the seed lightly down into the soil surface

## GIVING THE GARDEN A RUNNING START

Vegetable Seed Planting Indoors So As to Produce Thrifty Crops Two Weeks in Advance of the Ordinary Season

RANTED a hotbed or a sunny window in the house in which to place them, the first essential in starting vegetable seeds especially early in the season is proper soil. It should be light and very finely pulverized so that the tiny roots can penetrate it readily. Special enrichment, however, is not necessary—in fact, should be avoided.

Next come the "flats" or shallow boxes in which the soil is to be placed. These should be 2" or 3" deep, with holes protected by bits of broken crock in the bottom to provide for the escape of any surplus water which may work down through the soil. Whether the soil is put in flats, or directly in the hotbed, it should have under it a layer of some coarse, porous material like cinders or sphagnum moss, to make the drainage more quick and certain.

In filling the flats, care should be taken to press the soil in firmly. Then water it thoroughly, after which it should be left until dry enough to mark off on the surface with a small stick a number of very shallow rows about 2" apart for the seeds.

Sends such as cabbage and lettuce should be covered only 1/8" deep; beets may go a little deeper; fine flower seeds should be gently pressed down into the soil surface and barely dusted over with soil.

For several days after planting the temperature where the flats are should not fall below 55° at night and 10° or so more during the day. This high temperature tends to dry the soil out quickly, so glass may be laid over the tops of the flats to conserve the moisture.

Once the little seedlings have broken ground,

they should have a few degrees lower temperature, abundant sunlight and plenty of fresh air. Every morning, unless there is a severe storm, the windows (or sash, if the flats are in a hotbed or coldframe) should be opened enough to give a complete change of air without subjecting the tiny plants to a cold draft. The temperature should never be above 70° or 80° for any length of time, and watering must be done with a very fine spray in the early forenoon of bright days.

Transplanting to other flats should be done when the second true leaves appear. The seedlings should be set 2" or 3" apart each way. Move them very carefully so as not to break their rootlets. Before they are set out in the open garden they must be gradually "hardened off" by giving more and more fresh, cool air.



Fine soil is then sifted on top so as to cover the seed completely from sight



Watering with a clean spray gun follows, the fine spray not disturbing the soil



When the seedlings reach transplanting size, they are moved with a flat stick



The first transplanting is into a flat which holds them while hardening-off

#### January

### THE GARDENER'S CALENDAR

First Month



greenhouse vegeta-bles should be mulched with manure



Trench stored celery should be protected so that water cannot penetrate to



straw covering for the root pit will keep out the frost



To retain the mhiteness of the cauli-flower heads, break

#### SUNDAY MONDAY

This calendar of the gardener's labors is aimed as a reminder for undertaking all his tasks in season. It is fitted to the latitude of the Middle States, but its service should be available for the whole country if it be remembered that for every one hundred miles north or south there is a difference miles north or south there is a difference in performing gardeners of the performing the performance. The dates given are, or course, for an average season.

5. It is not a good practice in a good practice in the lawn sill winter. They should be raked into piles and earted to some corner to valuable to be burned, as sone to composed they are far too valuable to be burned, as sonly too often done. 6. House plants must have so attention at this time; the pores or preating organs become clogged with dust. Sponge the fagged with a soap solution in lukewarm water, with a little tobacco extract in it.

often done.

12. Be an poles and peabrus h are forces of the productive garden. Why not gather outdoor work is slack toff until spring, or in the rush of other preparation it may be omitted extract in it.

13. While
the ground is
frozen it is a
good practice
good practic
ure into your
garden. This
will prevent
the cutting up
of the borders
with the wagon
where the continue
it is the
ground of the continue
it is the
ground of the continue
it is the
improve with the
improve with age.

with age.

20 Authorities state that placing food for our useful winter birds will winter birds will winter birds will winter straight activities of weed, seed and noxlous insect hunting Regul means more birds and greater economic benefit be omitted

19. Before spring all the fruit trees muss be fruit trees to be rearfully and every mummined fruit removed. These diseased in the breed in the breed

27. Have you ever figured the loss in your garden from a to u g h s. Checkmate the dry weather with one of the good irrigating systems that are on the market. Order in now before the installed later in the year 28. Have you ever given more than a given more than a given more than a given to your garden soil!? Your State agricultural college will make a soil test for you perhaps free of charge, say to you for the state of the state of

7. Why not make a small plan of your place to scale. You can then c hart a ny changes intelligently, mark the location of water pipes often necessary to k n ow quickly and accurately 14. Heavy mulchings that are applied for frost protection. Or the over vegetable trench of the control of the c

21. Have you a small fruit border around the around the

28. Dahlia bulbs should be looked over at this time, as you can tell keep. If they are shriveling, cover them with sand, if they show signs of start-ing into growth they should be kept in a cooler place dantly.

29 All kinds
of hardy plants
that require it
can be pruned
at this film.
Young first
Young for the
pruned severeply, while trees
that have attained fruiting
size need only
very moderate
reducing. It is
well to look
them all over
now

ELIZA says it ain't right, with high prices tellin' us to save all the food we kin, but I ain't goin' to quit ELLZ says it any right, whin high prices term as to save an he pool we kin, out I ame igon to quit feedin' the wild rabbits this winter. I raised quite a batch of extry carrots for 'em last summer, out back of the cow barn—'Lisa called it my rabbit garden—an' saved all the knotty late apples that weren't good for nothin' else. Now that they's two foot of snow on the ground, an' it's colder'n a February moon, I kinder like to feel that them little cottontailed devils ain't got empty stomachs. It's pretty hard sleddin'

I kinder like to feel that them little cottontailed devits duit got empty stomachs. Its pretsy nara steading for 'em this weather—you kin tell that by the mess of fresh tracks in the snow around the house every mornin', where they been huntin' for food. Didn't take the furry little cusses long to find where I'd put the carrots an' nubbins on the bare ground under the front piazea, though, an' now they hold mass meetin's there reg'lar every night. Mebbe it's waste, but—well, I dunno but what it'll be forgiven me.

—Old Doc Lemmon.

#### WEDNESDAY THURSDAY FRIDAY

9. Chicory
and rhubarb
can be forced
under the
benches in the
benches in the
Company
to the benches in the
Company
to the benches in the
Company
to the the light. The
roots may also
the the light. The
roots may also
the the light. The
roots may be
grown in
in similar situations ields, etc.

10. It is a bad practice to scrape the screen services as a considerable amount of the live bark will be injured. When the bark is moss grown cleaned by scrub bins it well with a stiff, hard bristled brush

ations

16 Potatoes and other stored root roops should be picked over and any bad in over and any bad in over diy cellars where the tubers are likely to shrivel they can be sait hay or straw to exclude the air. 17. During severe freezing weather large trees can be trees can be with absolute safety. Dig them with good sized balls of earth around their roots and let them treeze hard in or a stone-bost can be used for transportation.

23. Plants
that are grow
that are grow
louse should
be too dressed
occasionally
with some sort
of concentrated plant food
Fire pare
come for this
purpose that
are excellent
and odorless
Your dealer
will have them 24. While the vines are dormant is an electronian to the control of the control o

31. Many vergreeus are damaged every winter by allowing wet, heavy snows to accumulate the present of the prese 30. It will soon be time to start hotbeds for the early of the start hotbeds for the start hotbeds for the start partner fresh would be a good polley to start gathering it now, so as to have plenty when the time comes for using it.

#### SATURDAY

4 Don't neglect to kee, up regular sowings in the greenhouse of those crops which require frequent plantings to assure a supply. Beane, tuce, radishes, spinach, etc., are all true croppers and may be planted in this way.

in this way.

11. Plants
that are being
wintered in
frames require
accessionally or
occasionally or
one soft and
yellow. Open
up the frames
on e very
always, water
them in the
morning so the
class will be
dry at night.

dry at night.

18 While
the trees and
shrubs are dormant cateriniedge masses of
various insects
are readily
discernible.
Burn the mests
with a torch of
sonked rags,
and paint the
cag masses
with a solution
of creesore

of creasore

25. All edged
tools should be
looked over
tooked over
that need it
must be
sharpened.
Lawn mowers
that are in
need of renairs
ought to be attended to at
it is the wheelhoe needs tinkering it should
be fixed

What are these maples and beckes and birches but odes and fulls and madigals? What are these pines and firs and spruces but holy hymns?



and other bulbs
may be lifted and
brought indoors



Old croquet wickets can be utilized to hold the leaf mulch over small plantings



Liquid fertilizer simply prepared by placing a sack of manure in water



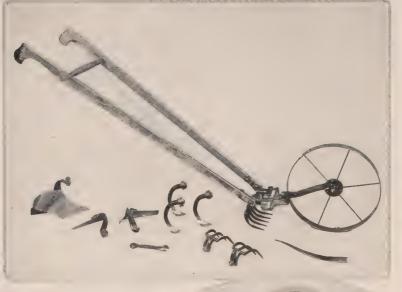
A good tomato trellis pays for itself in im-proved yield. It is a good plan to make one this winter, building it in sections to facilitate handling



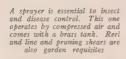
Straw mats are excellent covers for cold frames. They can be bought from supply men; or if you have enough long-fibered straw you can make them yourself



Cuttines grapes and green-house fruit trees should be taken now



The most useful of the vegetable gardener's implements is the wheel hoe. The single-wheel type comes with attachments for covering, hilling, cultivating and making drills



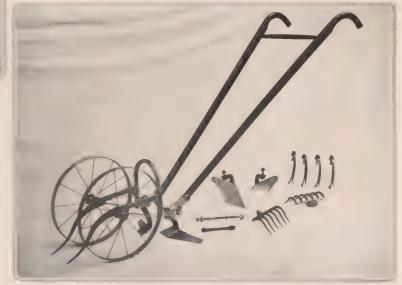


Spade, hoe and spading fork the three musketeers of the garden. In buying implements of this kind, buy the best and see that they are always kept clean and ready for work

The advantage of a double wheel hoe is that it can work on both sides of a row simultaneously. This type comes with all the necessary attachments



Rakes there must be, of course. The large one with wooden teeth and steel bow is for lawn work. The regular steel type is for pulverizing soil and the narrow style for narrow work. The scuffle hoe is an excellent weeding tool



THE BIG TWELVE IN GARDEN TOOLS

#### February

Second Month



Foliage trimmed this month, before the sap rises



berries or other cane fruits around the garden?



this month sow sweet peas un-der glass for later garden effects

#### THE GARDENER'S CALENDAR

SUNDAY MONDAY TUESDAY WEDNESDAY THURSDAY As sunbeams
sire a m
through
through
through
through
and nothing
joste or displace.
So waved the
pine-tree
through
And fanned the
dreams it
neverbrought.

This calendar of the gardener's labors is aimed as a reminder for undertaking all his tasks in season. It is fitted to the latitude of the Middle States, but its service should be available for the whole country if it be remembered that for every one hundred miles north or south there is a difference of from five to seven days later or earlier in performing garden operations. The dates given are, of course, for an average season.

12. Have your trees looked over carefully to determine their true condition. It takes a life they are subject to injuries of many kinds. A little tree surgery at the right time will save them.

3. All plants that have been in the same pots for any terms of the same and the same are same and the same an

2. No one can garden well with duli or poor quality tools. This is the time to do any repairing that the coesary. It coesary the coesary the coesary the coesary the coesary that the coesary the coesary that the coesary the coesary that the coes 10. Pen brush, bean poles and brush, bean poles and brush, stakes are necessities of a productive garden. A few hours spent with an axe in the woods will fell be beautiful the books will be beautiful the beautifu 9. Deciduous trees and
shrubs also require pruning
to keep them
to keep the
t

16. Start sowings now in the greenhouse of the hardy vegetables such as cablower, letting, celery, tomatoes, etc. Use flats or seed pans for greater convenience, and provide pienty of drainage. 17. Have you studied the merits of a fruit border? No place including the state of the state of

24. Sweet peas may be started now in the hotbed or green house received a rec

4. Plant stakes are necessary evils; what wish would not require supporting, but they do, and we must accommodate them. Order stakes now. If you can't do this, cut some in the woods.

trees, hydrangeas, oranges and o the r plants of this type that are used to cutsile in the summer should be looked over to see if the tubs will stand up through another season's use.

18. Now that spring is so near let us think sagin of green house or the standard of any grounds, whether they be for fruit or flowers. Early planning sewererrors.

19. If you cannot afford a green house there are numerous styles tectors that are helpful to gardening. They should be ordered now, as their greatest value is in the early season. Class ones are excellent.

5. Have you ordered your supply of seeds? They seeds? They shand now, An old bread tin makes a good mouse - proof storage for them. Don't let the seeds get damp— a cool, dry place is the ideal storage. 6. Summer flowering builts such as cannas, gladioli, dah-flas, estadium to the flower flower

13. If you like golf you should have a practice green constructed on your grounds in the gold of the green constructed on the green constructed on the green constructed on the green construction of th

14. It Is much easier to overhaul your lawn mower now in the grant was a summer on the lawn. At least the gear boxes must be cleaned out and repacked with vaseline, and the other bearings olled. 20. No garden is complete without some well selected to the complete selected to the complete selected to the completeness of the scheme. Make your selection and order now. 21. Stock plants of all kinds of bed-ding subjects should now be started into active growth so that the neces of cuttings will be ready for taking when the proper time for them comes in the spring.

1. Better get out the sashes for the sashes for the sashes for the cold-frame, and see that they are in good condition. Broken glass may need replacing, and the wood should be painted to protect it from the weather

SATURDAY

FRIDAY

15. Start to

22. Have you ever given a thought to the comforts of our greatest garden friends if the part of the comforts where the birds where the birds will give even maore pleasure to you than to them.

There is no peace for the blowing leaf,
The end of his journey he neer knows;
He lifts from the ground with an upward heave;
Or settles, as halls the wind or blows.

—Harry Kemp.



poles for tomatoes and beans may be cut now



Currants and gooseberries may be sprayed now for scale, etc.



Proper attention to wounds, etc., is es-sential to the health of trees



When preparing the seed box or flat, use drainage material such as oyster shells or broken crocks

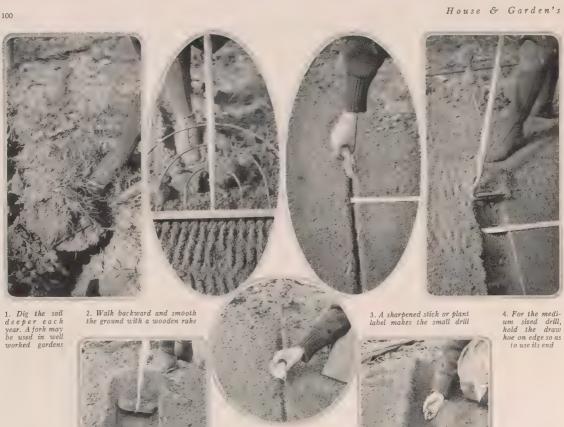


THE first clear day we've had in a week—it's snowed pretty near all the time since last Wednesday—as'
this mornin' I draw the wood sled up on the mounting fer a load o' lops. By jing, it was great—all blue
an' white an' sparkly, same as a Christonas card. There warn'ts breath of air stirrin', an' telculas—an'l,
sir, it fair hurt yer eyes to look at 'em, they was so durn white an' still an' kinder overpowerin'; billi' up
into the sky, ye know, from behind the hills like in a picture. Clouds are blame kunan sorter things, anyhow. Some's skinny an' gray an' old lookin', an' they gener'ly makes ye mighty low-spirited. Others 're
regiar high filters, feather-headed little critics that make ye fell like whitsin', they're fair weather clouds,
an' they ain't got a care to binterin', thundery ones that growt like they man and the still in the still and the still an

When they have made their first true leaf the young plants should be transplanted, set-ting them about 2" apart



When the forcing bulbs have fully developed in the greenhouse they should be moved to a cool, dark place



5. In making the wide drill for peas the whole width of the hoe is utilized



6. Lettuce and similar seeds are sown in narrow drills direct from the envelope

8. Onion sets, too, can be planted in the drill of medium size. This entails considerably less labor than making individual holes for them, and the results are good

9. Bush limas should go in double rows in the wide drill. Planted thus, they will make a well filled line. Artificial supports are unneces-sary for bush varieties

HOW TO PLANT SEEDS

10. In the wide drill peas are sown broadcast to assure a good row. After the plants are well above ground they may be thinned out if the row is crowded

11. Corn, pumpkins, cu-cumbers, melons, etc., are sown in hills. The soil in the hills should be thoroughly culti-vated several inches deep and well enriched

#### March

#### THE GARDENER'S CALENDAR

#### Third Month



Now is the time to start putting in cut-tings of the bedding



on the lawn should be raked up and carted away



Barrels or tall basrhubarb will make better stalks

#### SUNDAY

30. Most of the diseases to which potatoes are heir are caused by dry. Data the cool, moist soil. Frepare a piece of ground and plant them now, or as soon as the soil can be worked. An early start makes success.

3. Chrysanthemums for next fall must be propagated now. If the second practice to put in a batch of cuttings every four weeks until June to assure a long period of bloom in the autumn. 2. All the necessary pruning must be attended to now. Foliace the foliace of the flowering types that blossom on the terminals of the new growth, such as roses and fruits of all kinds require attention.

9. Where absolutely necessary, bay trees, hydrangers and other plants should be re-tubbed others can be re-fertilized by digging o ut some of the old soil with a trowet and filing in with a rich mixture.

16. Specimen trees of all types that are not sgrowing satisfactorily on hydronic and tree tree about four feet from the trunk and filling it in with good lich earth well tamped down.

23 All the various garden tools will soon be in use regularly. Are they in proper condition? Good work all the soon over all the implements, removing any rust and sharpening the cutting edges

MONDAY

31. Rhubarb should now be showing some growth. Barrels place over some place of the state of the state of the state of the should have a good application of manure dug into them at about this t.me

4. Asparagus is one vegetable that starts agrowlb vegetable that starts agrowlb vegetable that starts are starts are starts are starts are starts and the starts are starts and the starts are starts are starts and the starts are sta

11. Sowing of all the more common types of annual flowers should be attended. The company of the company of the company of the company of the many varieties that may be planted.

18. Before the buds burst on the deciduction trees and some construction of the buds of th

25. Sweet peas may be sown out of doors now Dig trenches about two feet deep and the width of a space of the sown the seed about two the surface. 24. The top protection on the rose bushes can now be removed. dig the winder with the product of the rose of the r

TUESDAY WEDNESDAY THURSDAY

This calendar of the gardener's labors is aimed as a reminder for undertaking all his tasks in season. It is fitted to the latitude of the Middle States, but its service should be available for the whole country if it be remembered that for every one hundred miles north or south there is a difference of from five to seven days later or earlier in performing garden operations. The dates given are, of course, for an average season.

5. All new plantings of hardy stock must be set out. The earlier in the planting season this granting season the property of the season of the season season season as the frost leaves the ground is the proper time for work of this sort.

12. Have you everything in readiness for the opening of the big garden on the big garden line, plant labels, measuring slick, pea brush. bear poles and tomato supports are a few essentials.

19. Small fruits of the different type come be planed to we come be come before the come of the come o

26 Boards, straw, burtap, cornstalks and other overtals for control of the contro

- Harry Kemp

7. Cuttings of all the various types of bedding plants as hould as the greenhouse early this month. Coleus, geranum, etc., are some which come under this heading.

14. Any changes in old plantings on e w plants contemplated in the contemplated of the contemplated of the carliest moment. Those which are planted early in the season will flower late this summer.

13. Better
make arrange
make arrange
use your greenhouse for some
useful purpose
this summer
Potted fruits,
ehrys an icheseries an icheseries are some
of the many
possible produets

20 All the

20 Ail the best varieties of dahla roots is how if did be strowth of the cuttings can be made of those desired. If the roots are laid upon a few inches of sand and watered freely they will soon start into growth.

27. Mulches of all kinds applied to shrub-bery boiders, perennia, flower beds, etc. should be during, flower beds, etc. should be during the second beds as possible and sec that it is thoroughly incorporated with the soil.

21. If you are considering new lawns this spring set the ground ready for seeding just as soon as it can be worked Early sowings which are much frees of weed a than those which are made during the summer months.

28. Manure
applied to
lawns last fall
must now be
raked up. All
lawns should
be raked clean
ramped A top
d ressing of
wood ashes and
bone meal will
help to produce
a good vigorous growth of
grass.

SATURDAY

1. If you have not already planted them, seeds of cabbage, cauliflower, celery, parsley, lettuce, tomatoes, egg-plant, peppers, leek and onions should be sown. See page 41 for detailed information on this work.

8. All the exotic plants, such as kentias, thraca en as sectors, should be re-poited at this time. Use pots about linch larger than the plants now occupy. The soil must be light, containing plenty of leaf mold.

15. Make a habit of heeling in your nursery stock the install a Stock that is allowed to lie around in the wind and sun is certain to show heavy losses, because its roots will be dried out and the smaller ones will die.

22. The covering on the strawberries on the strawberries should be removed and burned and the manure mulcin can be dug under. In cases where on the complete the bed should be well manured and dug in.

29 All trees and shrubs that are subject to attacks of San Jose scale should be sprayed without the subject of the the buds swell. At least forty-eight hours are needed to smother these pests.



shrubbery, roses, etc., should be dug under this month



plied to the lawn will kill off many weeds



vere pruning now. Leave two or three buds on new wood



Potato planting may begin just as soon as the ground can be worked. Cool, moist soil is the best



I RECKON ye'll think I'm a crasy old fool when I tell ye what I done this mornin', but I couldn't help it no more'n a sony-sparrer settin' in the sun down along the brook can help whisperin' away to himself about how spring's comin' in a couple o' days. Wa'l, here it is, anyway—I went out in the pasture lot an' flew a kite till 'Liau hollered fer me ter come in ter dinner! Dunno jes' why I done it, 'cause ye know I'm shadin' seventy year an' the rheumatis's been pesterin' me all winter. Somethin' in the feel o' the wind, though, an' the way the cloud shadders raced, kinder reached 'way down inside me an' took aholt, of I jes' had ter go. Fun! Why, any, stranger, I ain't had such a good time in I dunno when! Reglar kid I jes' had ter go. Fun! Why, any, stranger, I ain't had such a good time in I dunno when! Reglar kid I was, a settin' ag'in the sunny side o' the barn, feelin' that queer springy bull on the string an' watchin' the kite swinjin' lays-like away up that between the clouds. Sent some paper messages up the string, too; junny how dark they looks when they gits up a way, on' then all silvery as the wind fibe, or around so they ketches the sun. Made me feel twenty year younger, an'—wa', I don't care if the rheumatic is extry bad tonight!

All the plowing should be finished as soon as possible. Use a subsoil plow and get down really deep



Keep the soil well stirred around the plants in the cold-frame. A small "claw" is the in the cold-frame. A small best tool to use



Poles are the usual supports for the climbing kinds of limas. Cedar is the best and most durable wood. Set the poles firmly and let them stand about 6' high



When the vines begin to show a tendency to climb they will need some assistance to start them properly



The beans should have sand directly about them to ensure good drainage and minimize the danger of rotting through excessive moisture during germination

# TELLING the TALE of THE LIMA

I N any well regulated garden calendar for the latitude of New York City, May 1st is planting day for lima beans. On or about that date everything should be ready, for where is the vegetable garden worthy of the name which has not its limas?

These beans are among the most desirable vegetable crops. The vines seldom fail to produce abundantly if conditions are reasonably favorable and standard sorts have been planted. There need be no waste of the crop, however, for if the yield is greater than can be used on the table while fresh, the surplus can be successfully and without great trouble preserved for use next fall and winter.

The photographs and captions on this page tell the tale of the principal steps in pole lima culture. Choose a good variety like Early Leviathan, and plant in hills 3' to 4' apart each way. One-quarter of a pint of seed will be enough to plant a row 50' long. This quantity will cost you about twenty-five cents at any good seed store. Succession plantings may be made until the middle of June, to insure a longer cropping season.



As soon as the young plants are large enough to show their relative sturdiness, thin them out until only the three strongest remain in each hill



Lima beans should be planted with the "eyes" of the seeds down, five or six to a hill, in a circle around the pole. Cover them with about 1" of soil



Lima beans may be planted in among the corn, whose stalks will furnish them with support as well as shade

#### April

#### GARDENER'S CALENDAR THE

9. The secret of success with potatoes with potatoes is sariy planting; these plants are stroyed by hot, dry weather. To avoid this danger plant now, so that the crop will come to maturity before the trying weather strikes it.

16. The perennial border
nial border
should be overhauled.

Peren bound by
easting voids
must be filled
in either by
new plants or
by dividing
those which are
left. Dig under
some good
manure or give
the beds a topdressing of raw
crushed bone.

Fourth Month



The ground between rows should be kept well stirred with a



The dead leaves may be swept from the ivy with a long handled broom



The garden rows should be laid out before sowing is ac-tually begun



I wonder if they like it—
being treat?
John treat.
John treat?
John treat.
Joh

6. If the asparagus bed was mulched last fall it can be turned the turned the construction of the construc

7. That unproductive orchard can be considered to the constant of the constant of the proper use of cover crops. To prove this, sow now a mixture of Canada field peas and oats, and plow them under when they are about 2' high.

13. Seeds of the more hardy the more hardy the more hards on a sters, alys-sum, calendula, centaure, alys-centaure, alys-centaure, allow-er seeds are very fine.

20 Keep the soil constantly stirred between the garden rows. Seeds that are seen that are seen to see the protection of the line between the line between the labels. Soil cultivationis more necessary with young plants than old. 21. Start
hardening off
the bedding
plants in the
greenhouse or
frame now. It
is certain death
to aset outturns, etc., unless they have
been properly
hard en ed,
which ordinarilly takes about
two weeks.

27. Bean poles can now be put in place for the limas. Dig 11 berar sized holes the sized holes for them of the soll when redilling. The mound or hill should be about 4" above the adjoining grade. 28. This is the proper time to have the greenhouses overhauled. Broken glasses and laced, loose glass can be reset, and the wood work should be protected by at least one coat of good exterior paint. TUESDAY

1 Strawherries should now be uncovcred for the season. The winter mulch of manure can be forked under. If no mulch was applied, however, give the bed a good top dressing with bone me ai before digging.

8. If you have not pruned the hardy roses it must be attended to accome, because your rose it must be attended to accome, because you will be a to the eye and the hybrid types to three eyes, but leave about 4" of new wood on the teas.

15. All borders or open spaces around plants should be kept loosened up with a digging for k. This admits the necessary air to the soil and also prevents the rapid or the postioner if the weather is dry and sunny.

22. Do not neglect the sweet peas when they are small—see that they are small—see that they are properly him to the postponed until they have been flattened by wind or rain and damaged.

29. Have you spraying materials on hand for the host of bu gs and diseases that are certain to visit you this summer spray that he are ray with arsenate of lead to destroy the green currant worms while small.

WEDNESDAY THURSDAY

2. Rasp-berries, black-berries, cur-rants and gooseberries that were buried last fail can now be un-earthed. good manure worked in to the border now will materially improve the fruit.

17. Frames for the melons for the melon must be set in place he set in place he set in the first had been set in the first

24. It is a mistake not to make what sowings are necessary to give a continuous maturing core and the core of the common rule is to sow when the preeding sowing is above ground.

23. Any large trees that have been recently transplanted must not neglected in the sessential, and sessential se 30. If you grow any crops for the livestock the ground for the m should be made ready. Mangels, carrots and sugar ost and sugar, although corn must wait for warmer weather

Here been fixin' up to-day, spring-cleanin' the grounds, ye might say. They was a lot o' stull -twise from the winter prusin', straw cover from the stromberry bade, branches busted of its the trees by the from the winter prusin', straw cover from the stromberry bade, branches busted of its the trees by the first own right after breukfast, rakin' and haulin' an' pilin'. By supper-time we was through, so we fired the orchard blased so hot we couldn't hardly git close enough to throw on anythin' more, an' ye could hear it cracklin' clear up to the house. I took a look at it 'long about dusk, to make sart in it couldn't do no damage durin' the night. It had all burned down to gray ashes with a little pile o' red cods in the middle, an' the sky in the west was gray and red, too—hine to down in the lower medder an' the smoke from the fires with millions o' policy to the ground. It smelled different, that smoke, from what it did in the Fall. Then it made ye sad, 'cause it meant that the year was dead; but last evenin' it was full o' ideas 'bout flowers an' green leaves an' new crobs gittin' away to a fresh start.

—Old Doc Lemmon.

SATURDAY FRIDAY

5. The lawn a hould be looked to to see the looked to see the looked to see the looked this summer. Sod any small bald spots, and spade and seed do wn I arge spaces. An application of bone meal or wood ashes is advisable.

12. Before the trees and shrubs leaf out it is advisable to go over them carefully, destroying a 12 reads to be some them as best or the heat week to be twenty and the best week to be to

19. Do not let your greenhouse be idle summer Torts cope of the summer Torts cope of the summer to mate of the summer to mate of the summer to the house be empty.

4. Early planting is the first essential for the sesential plantings of deciduous trees and shrubs at the first opportunity. Firm the plants well in the soil and don't allow them to suffer from lack of water.

11. Have you stakes on hand for dahlias and other tail flowers, raffia or jute cord for tying, an arbor for the garden roses, a sundiar rose of the garden. You are sure no essential has been forrotten? This is the time to check them up.

18. This is the proper time to start some plants from seed for flow-ering next winter in the green house. Frimula, cyclamen, snapdragon and many others should be and grown during summer in frames.

25. Summer flowering bulbous plants as gladioli, mont-brettas, begonis, etc., are very little effort and are very and are very and are very summer to planted any time now, the gladioli at bi-weekly intervals.

26. Thinning out crops is more important than many suppose. Plants that are allowed to crow due to the crow of the crops that require thin ming must be attended to when yery small.

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just as the foliage expands. Paint the wounds



Peas should be hilled when 4" or 5" high, to protect them from breakage



peas and other hardy things may now be planted out



close up to the plants, especially when they are small



Melon frames should be put in place several days before the seeds are sown, so as to warm up the soil and promote quicker germination



-Old Doc Lemmon.

During this month many of the flower seeds Often annuals are good to supplement per-ennial plantings



Contemplated changes in the per-ennial garden should not be forgotten



## IN YOUR OWN BERRY BED

Hand cultivation and weeding are as important in strawberry culture as with other garden crops

> The straw mulch placed under the ripening berries keeps them clean and free from earth

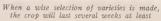
Hanging rags and other "scarecrows" tend to keep marauding birds away from the fruit, but the only sure protection is a net properly erected on a regular solid framework













Strawberries are propagated by runners. Pot some each year for the following season



Runners which are not to be potted should be removed, to centralize the plants' energy

#### May

#### THE GARDENER'S **CALENDAR**

#### Fifth Month



Work the fertilizer into the ground around the roses with a steel rake



Immediately after transplanting, water copiously to the soil settle



The burned tibs of ornamental evergreens can be cut out with shears

# TUESDAY WEDNESDAY

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5. Most of the more com-mon snnual flowers may be started out of doors now in which they are to go well prepared far enough ahead so that it will pulverize when being worked. Sow the seed thinly in drills,

MONDAY

SUNDAY

What a garden of surprise Out beyond my window lies! Fancy, when the night is there, Gentle trees with drooping hat Rocking, rocking cradle-wise, Little stars with yellow eyes! George Cronym

4 It is unwise to postpone potatopianting any
pianting any
want good resuits. Potatoes
are a cool crop and late plantings of them,
however well
cared for, are
rarely successfull. Use a
fertilizer with
1% potash.

delay cutting the lawn until the grass is so long as to necessitate or and a trans are the result of liberal fertilization and frequent mowing, the latter in some cases twice a week in growing weather.

18. Just before the general
flowering soason begins in
the perennial
and the class
to top die
to top dres
the beds with
bone meal or
other concentrated fertilizer. Seatter it
on the surface
and rake it into
the soit.

25. Dahlias may be planted out now. Make deep holes for them, setting the plants several to allow for filling in the soil as they grow. Use a little sheep manure or bone meal in the bottom.

19. Leaf beeties of various types will soon be at their soon be at their door their soon bear their soon bear

7. All the summer flowering bulbous plants may be set out now. To not some the supply of gladically the supply of gladically the planted at bi-weekly intervals. The rule is to plant all bulbs twice as deep as their diameter.

13. Now that the garden work is in this swing, invite yourself to get a country of the term of the ter 14. Weed killers are very necessary in stone gutters, blue stone walks and dries, and the season will destroy all undestroy all undestroy all undestroy all undestroy all undestroy all undestroy the season

20. Leaf eating insects will also soon be working in the garden. For them a Dollar beautiful and the second of the page to the second of the page, to protect from squash bugs. 21. It is unwise to postpone the sowing of tarm
erops any
longer. Man.
8 etc., carrots,
turnips, etc.,
should be
sown. As size is
the important
factor with
these crops,
early sowing
is needed.

FRIDAY

t. If the weather conditions are sottied the warm vegetable crops 
may be sown 
at this time. 
Beans, limas, 
pumpkins, 
okrs, melons, 
etc., are all 
considered 
warm crops. 
Details on 
page 53.

THURSDAY

8. Crops that are more or less inactive and are not grow-libe stimulated with an application of nitrate of soda or some other strong fertilizing element used in liquid form to bring about quick results. 15. Make a small seed bed for the accommodation of late carbon of late carbon of the c

22 Do not neglect to keep up succession sowings in the garden, as advised elsewhere in this issue. So not be not seen to be no

SATURDAY

10. Maple trees should be pruned just as the buds are bursting; there is no danger of the property of the wood until the cuts heal.

17. A barrel or liquid manure in some convenient corner in terror will be a valuable accessory for treating plants that are not doing well. Alternate applications of this with solutions of nitrate of soda.

24. If the weather is dry you will be troubled with the attacks of green fly and other plant lite. Plant egg-plants are especially susceptible. Spray with strong tobacco solution.



Good birch along both sides of the pea row is the best kind of support



Young hedges can be quickly trimmed with a sharp sickle instead of shears



should be practiced so as to maintain the vegetable supply

 $D^{ID}$  ye ever stop ter think what a garden'd be like if they warn't no birds in it? Gosh a'mighty!— why, it wouldn't be no garden at all, hardly. I'd hate like thunder ter lose the robins a-huntin' worms along my paths at sus-up, an' the thrushes in the afternoon. 'Course, they's others-song sparrers that ye hardly notice 'cept when they's perched like sentinels on top o' the tomato trellis, ernebbe runnin' ahead of ye between the noinn rows when ye're cultivatin', an' weren that flies over from their nest in the o' box under the plazar arof ter catch currant worms; bluebirds in the spring an' now an' then a catbird er brown thrasher, 'specially 'long in the summer. But the thrushes an' robins is my favorites; they're the real garden birds—never fergit ter sing a kind o' heerful, full-hearted mornin' song from the trees, soon's they wake up an 'fore they goes down ter breakfast. Pretty good way ter start the day, singin'.

—Old Doc Lemmon.



The tall flowers like dahlias and hollyhocks need individual stake supports



If you have space without sacrificing other vegetables, you can now plant potatoes



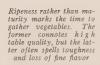
Annual flower seed should be sown in the open without delay if you want best results

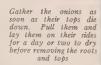


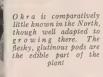
Peas should be picked as soon as the pods are well filled out. Leaving them on the vines longer than that means that when they appear on the table they will be more or less mealy



The one positive test of the ripeness of corn is to strip the sheath leaves partly away from the ear. In the eyes of an expert the "sel" of the ear, the condition of the silk, etc., are significant







The keeping of notes, of records of the garden's growth, is at once a pleasant task and a valuable future guide. Planting and harvesting dates should be set down



# WHEN TO PICK VEGETABLES

THE greatest asset of the home vegetable garden is the opportunity it offers for supplying the table with the best of things in their most palatable stage of development. Unfortunately, many beginners to not realize that a delay of a few days in picking often means the difference between beans or peas or corn that are tender and juicy, and the same vegetables in a toughened and more or less passé condition. Distinction should always be made between ripeness and maturity. The former connotes high table quality; the latter often spells the opposite.

See to it, then, that your fresh vegetables do not grow too old before you gather them. Thus will you benefit your bill-of-fare, and be enabled sooner to prepare the ground for a new sowing.



#### June

#### THE GARDENER'S CALENDAR

WEDNESDAY

11. Tomatoes, cucumbers and melons, as well as other garden are the street of the stre

Sixth Month



Sweet pea vines trained on fences should be tied up as they grow



Potato beetles should be met with poison sprays or



suckers should cut away from the

#### SUNDAY

8. Look out for rose bugs. Go over the plants each day with a small can of kerosene, so the can and causing the interest of the can and causing the interest of the can and causing the interest of the can and causing the kerosene. This will destroy them quickly and effectively

15. Onion maggots are very destructive at this season of the year. It is good practice to top dress the soil thorough ly with soot to keep them in check. Thorough at matter will be well repaid by a better crop.

22 It is good practice to go over the bed ging plants, pinching the tips of their growth frequency will cause them to become more sturdy and to develop more quickly and in better form. Only the tips need removal.

#### MONDAY

16. One of the essentials in producing good fruit is the first producing good fruit is the first producing of the crop. The trees should be gone over carefully now, reducing the quantity of the fruit by about one-half Larger and better fruit will be the result.

23. Don't neglect to soak the soil thoroughly when it is necessary to artificial watering. The artificial watering are the best time for this work Cultivation should follow so as to restablish the dust mulch.

#### TUESDAY

10. Fruit trees that have reached the producting stage should be sprayed regulation. This protects the fruit from the parasites and fungt. Successive generations must be destroyed as they hatch.

24. Thinning out all the crops in the garden is advisable. This should be done were small and before the roots are interlocked, or numerous desirable plants will be removed. Water well before lifting.

Into the stilly woods I go, Where the shadows are deep and the wind-flowers blow,

And the hours are dreamy and lone and long,

And the power of silence is greater than song. -WILFRED CAMPBELL

#### THURSDAY FRIDAY

12. Care should be taken with all newly planted hardy stock that it be not allowed to suffer for lack of water. Thorother control of the grounding of the grounding of the grounding by a heavy mulch is needed.

19. The flower garden should be looked over states and the should be removed. Plants that bloom throughout the entire scaron should be top-dressed occasionally with some good fertilizer to maintain vigor.

SATURDAY

21. Be sure you keep the lima beans and peas properly supported; the peas by staking and the limas and the limas their poles. Bush planes should be supported by small pea brush placed in the row. Such attention repays.

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-Old Doc Lemmon



A little fertilizer scattered on the soil will improve the



should be made ready for the to-mato plants



can partly filled with kerosene is an excellent receptacle for rose bugs



A little sheep manure scattered over the grass will improve its quality. This fertilizer should be spread as evenly as possible



THE other morain' I noticed some o' the extry early strawberries had bren half et up. They looked like a turtle had been after 'em au' pretty soon I found him—a bu boesentle layin' right in among the plants. They ain't nothin' surprisin' bout that, for every former's boy knows howe find after the rige strawberries. I took an' carried this particlar twile outside the garden fence an' set him down at the edge o' the woods, fifty yards away. Next afternoon, dummed if he warn't back agit Then I got sight mad an' toted him off to the swamp back o' the barn, thinkin' that would sure lose him. Not a bit—in two days he was eatin't them beries agin like he'd already been than. I found the kole in the fence where he got in an' stopped it up; an' there warn't no more trouble. Now, they's two interestin' p'ints bout all this. Pust, how did he find that one little hole in the fence wich let him in at 'em?' Pears to me turtles ain't such dum fools, after all.

The root stock growth of grafted roses should be kept reduced



Old barrel hoops surrounding the plants and raised on stakes 1' or so make excellent supports for the tomatoes



## SIMPLE SURGERY for FRUIT TREES

The properly pruned apple tree has a low head, an open center, and is not cluttered up with a lot of unproductive but strength-consuming shoots





When branches are removed they should be sawed off clearly close to the trunk, leaving no stubs

When branches are removed they are the are they are the are they are they are they are the are they are they are



(Lower center) Pruning and spraying the fruit trees for scale are both tasks for the winter



A very weak formation. Sooner or later the tree will split at this triple crotch and be ruined



Young trees as well as old need constructive pruning. At this period the developing form of the tree is guided in the way it should go and its mature success largely determined



The thin, weak interior branches should be cut out. They bear little or no fruit, and during the growing season do much to obstruct that free air circulation so necessary to crop perfection



#### July

# THE GARDENER'S CALENDAR

WEDNESDAY

2. Sweet beam ust not be allowed to become dry at the roots; heavy multening is preferred to surface watering. When necessary the ground should be well soaked. Use a stick to determine the penetration of the water.

Seventh Month



To postpone its to seed, shade lettuce with slat screens



shading lettuce is to support boards along the row



Put poison on the ages before the worms get a start at them



6. Keep the cultivator working steadily. Deep and frequent cultivation will relieve to a great extent the necessity of artificial watering. Besure to work the ground after each rain so as to conserve the natural moisture.

SUNDAY

star That trembled out at night-fall and hung above the pine.

Karle Wilson Baker.

7. Do not neglect the flower garden Keep all the flower garden the plants well loosened up to admit air to the soil. The tall flowers, especially, should be staked, and when this is done, remove all dead stems.

14. Don't wait for blight to destroy you plants before you at a start well as the start was to be something to be something the something the

21. During the dry weather that usually prevails at this time, it would be an except the distribution of t

28. Carnations in the field must not be neglected. It is on the condition of these plants that the flower crop of next winter to a large extent depended well and keep the plants pinched back.

13. The last sowing of corn should be made at this time. Use both the vend carry and the sound of the sound carry and the sound carry and the sound carry and the sound carry and rows quite close together so that in late fall they can be protected, if necessary. This will increase the amount grown.

20. What about some fall peas in the garden? Don't think because you falled that it is not practical. Use manure in the trench and for good results use the round type of peasuch as New York Market.

# MONDAY TUESDAY Today I have grown taller from walking with the trees, The seven sister-hoplars who go softly in a line; And I think my heart is whiter for its parley with a star

neglect the ne-cessary prun-ing of the early flowe fing shrubs after they have fin-ished flowering. Remove some of the old shoots at the base and re-duce the num-ber of the thin weak interior branches.

# 8. Set out some plants or the late plants of cab bage. of cab bage. It is not some plants of cab bage. Set of cab bage. Rules of cab bage. The cab bage of cab bage of cab bage. The cab bage of cab bage of cab bage of cab bage of cab bage. The cab bage of cab

15. Rutabagas, beets and carrots for winter use should be sown the critical to the control of th 16. After the outside roses have finished flowering, some a t t en t i on sould be given by the first of the

29. Keep the runners removed on the straw berry bed. This is also an excellent time to see. If this is properly attended to, they should produce next season. Spray with Bordeaux if the leaves are blighted.

#### THURSDAY

3 The main shoots on the dahlas should be reduced to three. Close cuttivation will keep theshoots from Increasing the plants must be discussed by the cuttivation will be the resultant to have really high quality flowers

9. Why not sow cover crops on that waste land or in the orchard? This recommend is a means of soil restoration. Corn, rye, clovel and beans are good for this purpose and make excellent summer cover crops. 10. The time the climbing roses should be looked over is after they have finished flower. The old wordy shoots can now be removed at the base, and the lateral shoots can be reduced somewhat, improving their growth.

17. This is an excellent time of year to look over the trees on your grounds. Any minorrepairing the house of the house of

24. What about next wine term in the real in the real

THEY give a pajent, I think they calls it, over to East Ellsworth las' week, to celebrate the foundin' o' I the village back in 1719. Some o' the rich summer folks started it, an' it must've cost 'em a pile, what with the rig-outs for the actors, the refreshments, an' all. They took it powerful serious, too, them New Yorkers, an' told us how we owed it to our great-granddad's to show we ain't frograd it they done for us by startin' East Ellsworth. I reckon it don't make much difference to them that's dead these hundred years an' more, whether we gives a pajent or not; but we likes to keep the summer vistor happy an' spendin't their money, so we says "Sure" when they asked us. It was fun, too, after we got started. One day they was a sham fight with the Indians, an' I like to died e-laughin' at Hen Pillkins, with a tommy-hawk in one hand an' a scalpin' knife in l'other, a-whoopin' through the brush after old man Elksu, who was dressed up like one o' them Pilgrim Fathers. Hen he ain't much on looks even in his reglar clotes, but fixed up as a Indian—we'l, a hoss that seed him jes' took one look an' botted. Mebbe them two of reascals couldn't git over the ground, too—the las' we seed of 'em they was a-headin' thor the Bast Ellsworth House, an' goin' strong!

#### FRIDAY SATURDAY

5. Do not fail to keep up fail

12. Weeds!
We must make
war on them
now. This is
the time to kill
sli obnoxious
p hey are now
in till development. Early
morning is the
best time to
destroy them, after w ard s
raking them up
in the evening.

11. If you have fruit trees it would be greatly to your advantage to start mow to get acquaintan pruning. This is the accepted method with fruiting trees and it should be attended to at this time to produce results.

18 After the fruiting period is over the cane truits should be examined very carefully. First remove all the cane in position if care is taken. These will be your next year's producing canes.

25. The meion plants should be fed freely with il-quid manures. First make some holes around the hills serial will reach the roots, then lay boards under the fruit. This will assure you much better meions. 26. The planting season is again here. Evergreens of all types may be moved now. He sure to use produce to the produce of the

This Calendar of the gardener's lahors is aimed as a reminder for undertaking his tasks in season. It is fitted to the latitude of the Middle States, but should serve the whole country if it he remembered that for every hundred miles north every hundred miles north ence of five to seven days later or earlier in performing garden operations.

Old Doc Lemmon.



A nitrate of soda solution is good to stimulate the growth of the crops



shrubs as soon as they have finished blooming



Staking and tying the tall flowers is a necessary protective measure



The large tomatoes best for the main crop



Young seedlings may be transplanted into boxes now. Keep the surface of the soil well stirred



All nests of the tent caterpillars should be burned. A kerosene torch, or paper, may be used



Flower pots under the melons will help their ripening



Apples and pears can be made to bear extra choice crops when grown in the greenhouse

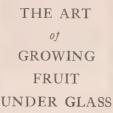
Whether in flower or fruit, the peach tree trained to a trellis under glass has a distinct beauty

The possibilities of growing fruit under glass are only limited by the space one can give them

Grape vines are set 4' apart close to the wall of the house. The wires are 15" from the glass



Yes, these are melons, real muskmelons, greenhouse grown. The nets prevent the fruit dropping prematurely





#### August

# THE GARDENER'S CALENDAR

Eighth Month



Abundant watering of the roots is essen-tial when evergreens are being planted



Gather and use the egg-plants while they are still young and full of juice



When the crop is over, dig the pea vines into the ground to enrich it

#### SUNDAY MONDAY

31. Buds will be forming on most of commost of the green house freen house three mums at this time and strong feedings will be necessary if you want highest quality flowers. Also spray occasionally with tobacco preparation

3. Strawberry beds may be set out at this time, which will bear a full roop of fruit. The set of th

17. If you want high-grade dahita blooms it will be necessary to some properly disbudded This means a constant and constant and consistent pinching of the young growth in order to reduce the number of buds.

24. It is advisable to have a small step-ladder or at least a box to stand on in or der to get when poles when picking limas or other types of pole beans. It is usually at the top that the greatest yield is found.

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TUESDAY

11. Melons ripeaing now should be kept should be kept sorted and the sorted sorted by the melon to leave the voluntarily. 12 Bulbs for foreing in the greenhouse should be or simple. Boxes, pans, soil and other necessary materials used in the foreing of these plants should be made ready, as some a chese bulbs are available now

18. Roses showing a substantial growth should be encouraged by top dressings of bone meal of lertil zing agent. Though it does not improve the quality of the fall flowers it gives the plant more vigor. 19. Don't let your flower garden run down. Keep the tall flowers staked and out out all the dead stalks. Keep the edges trimed and stir the soil on the surface This is as necessary now as in the spring.

25. Crops that remain in the ground such as Swisschard, parschard, parschard, parschard, parschald, a strong fercasionally with a strong fervent them from becoming tough. Soluble fertilizers are more available. 26. Newly set out plants that are not growing satisfactorily can be stimulated into pleasing of all trate of soda, sulphate of amonia or other materials of this kind. After using these good results will be noticed.

#### WEDNESDAY | THURSDAY

Warm noon brims full the valley's cup, The aspen's leaves are scarce astir; Only the little mill sends

up
Its busy, never-ceasing
burr.

-Lowell.

21. This is an excellent time to go over and prune the shade brees, as to we have the work should be done. Remove the limbs very close leaving no shoulders, and paint the wounds carefully. Make cuts clean

6. Vegetables of the different forcing types smay be started for greening states to calculate the different forms of the different forces and the different forces and the different forces are vegetables of lead to describe the different forces and the different forces are vegetables of lead to describe the different forces and the different forces are vegetables of lead to describe the different forces are vegetables of lead to describe the different forces are vegetables of lead to describe the different forces are vegetables of lead to describe the different forces are vegetables of lead to describe the different forces are vegetables of the different forces are vegetabl

20. If you have a green-house make up a compost heap of sale plants of the plants of t

27. Gather the onion crop now. When the tops have died down the onions should be pulled as to day; then the tops can be twisted off and the onions stored in a dry cool place until ready for use.

#### FRIDAY

15 There is still time sow some cool crops sow some cool crops sow some cool crops. Several sowings of peas should be made this month, also spinach, cress, radishes, lettuce, turings fround is dry, water well before sowing.

22. This is the time to build cold-frames for the Brick of concrete is preferred but a substantial wooden frame will last some time. Next to the greenhouse the coldframe is the gardener's best friend.

#### SATURDAY

9 Bay trees, palms, hydrangeas and other plants customarily used for plazza decoration are usually these with and other insects. It is advisable to use tobacco sprays regularly as a preventive of these pests.

16. The cane fruits should be looked over cat this time. Our shopton of the looked by the looked by



sun, then twist off the tops and store the bulbs for winter



By breaking some of the roots you postpone the seeding of lettuce plants



Foxgloves, nulas and other perennials are started from seed sown now

SEEMS like this Prohibition idee ain't limited just to people—even the shy's been dry since the first o' July an' the crops is in a bad way all through the rounty. Makes me think of a piece in our last week pope out it is a bad way all through the rounty. Makes me think of a piece in our last week proper out is a large of the element! It treat 'em right an' give 'em a good harvest here helds a kind o' sociable an' dan' per per per the folks is all old-line Methodists, an' they wouldn't stand for million the late the sun an' the roun an' the south wind. But the idee am't bad, I mean, the idee o' lookin on the elements, the sun, mon an' stars, as sort o' gods rulin' our gen'ral well-bein. To my mult they ain't no grander thing than the sun, nor more avee inspirin' than a whachin' old thunderstorm at night, nor more helpful to a body's spirit than the stars, if yell really look at 'em. Call me an Atheist if ye want to, but I b'lieve they's a deal o' practical, workable religion, a lot that'll help ye be a useful citizen an' a good friend, in the worship o' them Indians. It's kinder gettin' down to smple first principles, o' course, but it's sincere an' genuine—which some of our up-to-date religion ain't.



Slat stakes keep the runners of the bush limas off the ground



Do not fail to thin out those vegetables the seeds of which are sown directly in the garden rows



Seeds of cauliflower, lettuce, etc., for trans-planting, can be started now in boxes in the greenhouse



Old advice, but good -keep the ground well cultivated

# FRESH BERRIES-WITH CREAM

Wherein the Wares of the Howling Huckster and the Avaricious Fruit Store Man Achieve that Elusive Perfection Through the Medium of the Home Garden

In the planning of even a modest kitchen garden the desirability of the small fruits—currants, raspberries, blackberries, etc.—is often overlooked. The thoughts of beginners especially are prone to center on vegetables, to the exclusion of the berries, which, while of perhaps less nourishing value, are nevertheless highly important articles of diet.

The requirements of these cane and bush fruits are not exacting. Any fairly sunny, well drained soil which will produce a good general vegetable crop will be suitable. Such necessary care as spraying, pruning, mulching, etc., is easily given and amounts to little

enough compared with that which the regular vegetable garden demands.

As soon in the spring as the ground is dry enough to crumble is the time to plant. The stock should be ordered, therefore, early; but before deciding what to get you should look the ground over carefully and decide exactly how much space will be available. In doing this the following planting distances should be kept in mind:

Raspberries ought to be planted 3' or 4' apart in the row; blackberries and dewberries, 5'; currants, 4'; gooseberries, 5'. If only a single row is to be planted, perhaps along a fence or

at the edge of the garden, these figures will suffice. If, however, you decide upon two or more parallel rows, you must allow an average distance of 6' between the rows, to leave room for you to move about comfortably while attending to the cultivation, picking, etc.

All of the good nurseries supply varieties of small fruits in great numbers. It would be out of the question to set down here anything like a comprehensive list of these, but you will not go far wrong if you make your choices from the following:

Raspberries: The King (extra early); Cuthbert; Columbian; Reliance; St. Regis Everbearing; Cardinal; Palmer (black); Golden Queen (yellow). Blackberries: Mercereau (early); Early Harvest; Early King; Snyder. Currants: Perfection; Fay's Prolific; Lee's Prolific (black); White Grape.

Dewberries: Premo (early); Lucretia. Dewberries ripen somewhat earlier than raspberries, but in other respects are quite similar to them.

Gooseberries: Industry (English variety well suited to our climate); Houghton's Seedling; Downing; Golden Prolific.

A liberal amount of well rotted manure dug into the soil where the plants are to go will prove a paying investment for higher quality fruit. For blackberries and raspberries, too, you must provide stakes or some other supports.



Unlike the true cane fruits, currants bear only on mature and thoroughly ripened hard

The best red raspberries, when grown at home, lack the somewhat pithy character of those in market



Heavy bearing bushes can result only when wisely selected and well cared for plants are used

Blackberries, as well as raspberries, must have a supporting trellis to which the canes can be tied. A good one is made of stout wooden posts with connecting strands of heavy wire

#### September

#### THE GARDENER'S CALENDAR

WEDNESDAY

Ninth Month



A garden bed where the late crops can be protected is a good investment



Good rutabagas must grow quickly. Nitrate of soda will stimulate them



Herbaceous plants may be moved more successfully in fall than spring

#### SUNDAY

September blowes softe Till the fruite is in the lofte.-Old Proverb

7. Do not stop rutting the grass until all grass until grass u

14. This is one of the best periods of the year for seeding down new periods of the control of the period of the p

21. Do not neglect to sow down with rye and clover the vacant patches in the garden side of the control of remaining after these erops have been gathered.

28. Wire grass, rye grass and other heavy growing grasses and weeds grow very rapidly at this season of the ear, and overrun your garden they will be aser loss factor to contend with next spring.

#### MONDAY

8. Melon frames and other garden accessor less that was a substantial to be a substant

15. Onions, parsilps, spinach and hardy crops of this character may be sown in the oldest of the character contribution of the character contribution of the character contribution. This can be easily done with a little protection, such as salt hay or similar material.

22. Colery
should be
banked with
carth now. It
is best if this is
attended to frequently, as the
attended to work
its way into the
heart of the
plant. Hold the
stakks together
while banking
them.

29. A great deal of our so-called winter losses, especially with evergences, is the result of these plants being all the come bone dry at this season when they are developing a root system to carry them over winter.

#### TUESDAY

0. Vegetables should be started in the greenhouse greenhouse minted next the case of the c

setting.

17 Permanent pastures of grazing pursuing pursuing states of the sown at this time. Bear in mind that if properly put down, a good pasture will last for many years Do not cum stances plant inferior seed.

23. Mushroom beds may
be started in
the cellar at
this time. Be
sure to get
fresh droppings
for this purpose, and by
all means use
new culture
the solution of the delity and the
most dependable 24. Cold-frames that can be protected throughout the winter should be used for sowing hardy vegetables like call the cold that call the call that call the call that call the call the

30. It would not be amiss with late growing crops such as celery, ruta sparsnip and New Zealand spin a ch, or other crops still bearing, to apply frequent dressings of manure and occasionally intrate of soda. O'er yon bare knoll the point-ed cedar shadows Drowse on the crisp, gray moss.

#### THURSDAY

11. Where heated frames are available for them, there are a number of the foreign and the following the following

18. Attention should be given now to build planting for this season, the planting for this season of the season of

25. It might be advisable to build a fire in the greenhouse occasionally. Cold nights and hot days are productive of mildew. To overcome this have the pipes painted with a paste made from flowers of Bull plur and water.

FRIDAY

12. The flower garden should be given a final clear-up for the season. The waik a should be propled week growth and the old stalks of plants removed and burned. This will destroy many insect larvae

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13. Do not neglect to get entitings of the bedding plants before they are destroyed by plies to the plies to

20. Chrysanthemums and
other similar
other similar
in bud should
be fed freely
with liquid
manures of different kinds.
This operation,
however, must
as soon as the
buds as how
color and signs
of opening



Sweet peas for win ter bloom in the greenhouse should be planted now



Gathering rutabagas that have attained the proper size and best quality



Boards held with stakes may be used in blanching the early celery crop



-Lowell



The last of the season's clipping of the formal evergreens may be done during September



The time is approaching to plant hardy bulbs outdoors



Start this month to hill up the late celery plants with earth



Lettuce may be planted in the cold-frame to yield a post-season crop which will repay the effort



FOR THE FLOWERS THAT GROW IN HEAT

The small greenhouse can often be built-on if its architectural treatment conforms with that of the dwelling. In such cases it is heated by an extension of the regular house system

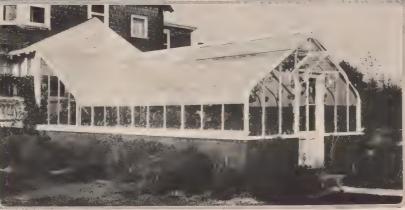


Cold-frames derive their stimulating warmth from the sun's rays. Young plants started in the house are moved to them for "hardening off" preparatory to setting in the open garden





A simple type of lean to greenhouse, showing the proper type of ventilator. For best results, the lean-to should be heated at night and on cold, cloudy days



The lean-to above is built against a concrete wall. It is partly sunken and faces the south, to catch and hold the maximum amount of sun warmth

A regular greenhouse, even though small. can be adapted to growing any kind of hothouse plant. This is a "unit" house and can be added to if more space is desired

#### October

#### THE GARDENER'S CALENDAR

Tenth Month



Carrots and other roots should have their tops removed before storing



Changes in the per-ennial flower border should be made dur-ing this month



If the last clibbing of evergreens has not been finished, there is still time



Label the gladioli bulbs before storing them away for the

#### SUNDAY MONDAY

This Calendar of the gardener's labors is aimed as a reminder for undertaking all his tasks in season. It is fitted to the latitude of the Middle States, but its service should be available for the whole country if it be remembered that for every one hundred miles north or south there is a difference of from five to seven days later or earlier in performing garden operations. The dates given are, of course, for an average season.

28. When husking corn, any exception-dependent of the care should be set as de und saved for seed next year. The ears should be hung up n some dry uplace where the mice will not be able to reach them. Suspen d In g by

#### WEDNESDAY

TUESDAY

THURSDAY

2. If you have heated frames of any not use them for the young the heated frames of any not use them for the young the heated frames of the heated frames of the heated frames of the heated frames of the heated from the heated from getting down into the young the heated from getting the heated from getting the heated from getting the heated from getting the heated from the hea 8. Hay throw over tender garden crops such as eggplant, peppers, lettuce, will protect them by light mass, it must be removed durang the day and applied only at night. Do not use enough to break them

plantings of new trees may be attended to at this time. With the dry summers will of the past few years, fall plantings have given better results than where work of this sort was done in sprang. grown succ fully in house.

23. Start now to collect all to collect all to collect all to the collect all th 22. Don't neglect to mulch heavily with manue or any loose material, all evergreens that transplanted during the current year. The first winter is the critical period with these trees, and they need care.

30. This is an evcellent time to destry any a phid swhich may be on the white pines and other evergrens. It is a strong to-becon and sop mixture will free the trees from this pest. 29 After the foliage fails all fruit trees and other deviduous trees subject to the attacks of see appayed with any of the soluble oil mix tures. Lilacs are especially susceptible to attacks of the scale pest.

#### FRIDAY

10. Cauliñower just starting
to head up
should be lifted
very carefull,
and saceder
the will mature
properly. The
plants may also
be planted in
t u b s a n d
moved to a
barn, garage or
other frostproof place.

24. Don't forget to plant a few of the more hardy types of narcissus in some secluded corner where on naturalizing and spreading by themselves. In a few years e noin ou smasses are possible from small plantings

SATURDAY

I love to see a bough across the moon When, like a scarlet langer, like the pun, Low in the east at knips Pendant, obscured, and dim William Dougles

William Donalas



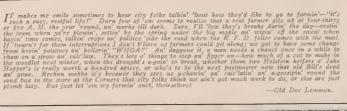
Dig up and store all the tender bulbous plants such as can-nas, dahlias, etc.



Bulb planting should be started now, and continued until frost comes



The root crops can be stored in boxes and covered with dry sand





Greenhouse work gets under way this month, in preparation for the winter blooming season. The sweet peas should be kept cultivated



The collecting and saving of autumn leaves should not be overlooked. When rotted, they make excellent mulching and fertilizing material



Dahlias, too, ought to be clearly labeled when taken from the ground



A dry trench will protect the cabbages if they are turned head down and covered with earth

The larger root crops may be packed quite closely in an outdoor trench and protected with hay

Before storing the roots in trench or cellar, break off their useless tops and discard them





Green peppers need no packing material. Simply store them in shallow boxes or on a shelf





If dry earth is used in the storage of parsnips there will be less shriveling of the crop



Wrapping tomatoes in paper will enable you to keep them indoors for several weeks

# WINTER BEDS for SUMMER CROPS

Another method of keeping tomatoes for fall and early winter use is to pack them in hay



#### November

#### Eleventh Month



The grass in the orchard should he burned to destroy insect eggs, etc.



Now is the time for the final cleaning up of all garden and grounds trash



are uncompleted in the perennial border should be made

### THE GARDENER'S CALENDAR

I saw old Autumn in the misty morn
Stand shadowless like Silence,
listening
To silence, for no lonely bird would

MONDAY

sing Into his hollow ear from woods Into his hollow ear from weath forlorn.
forlorn.
Nor loolly hedge nor solitary thorn:—
Shaking his languid locks all dewy
hight
With tangled gossamer that fell by
night,
Pearling his coronet of golden corn.
—Thomas Hood.

2. It is now time for all fall bulb plantings to be completed Always so the four times as deep as the diameter of the bulb, mound at the earth up so as the diameter of the bulb, and the earth up so as to shed water, and mulch the surface we'll with manure. 3. Garden changes should be made now be fore the ground is frozen, to prevent settling and other irregularities. In the spring Plants disturbed now are more likely to live than those moved in midwinter.

SUNDAY

30. All ornamented garden furniture, settes, etc., and all meion frames, bean poles, tomato trellises and such planting accessories, should now be stored away for winter. Paint those that require it.

9. Carnation plants should be kept supported and properly dispudded. Never all 0 w the benches to accumulate green mould. The surface of the ground should be kept stirred. Top-dress with sheep manure.

10. Sweet possession now and properly protected over the winter will give quality flowers next year. A frame made of boards and covered with manure after it is put in place will be an excellent protection.

16. Primula, cyclamen, cineraria and other potted plants that are custom arily grownin frames may be brought in side now. Frequent feeding with liquid manures is very helpful to their continued success indoors. 17. Tender roses and all tearoses should be strawed up now to protect them. Putting earth around the bases of the plants helpy shed water and will serve to protect the lower part of the plant from damage

4. Do not neglect to make successional sowings in the greenhouse of vegetable crops such as beaus, cauliflower, beets, carrots, lettuce, etc. The secret of success is sowing in small quantities and frequently.

TUESDAY WEDNESDAY THURSDAY

FRIDAY

This Calendar of the gardener's labors is This Calendar of the gardener's labors is aimed as a reminder for undertaking all his tasks in season. It is fitted to the latitude of the Middle States, but its service should be available for the whole country if it be remembered that for every one hundred miles north or south there is a difference of from five to seven days later or earlier in performing garden operations. The dates given are, of course, for an average season.

5. Ill-kept gardens breed diseases and insects. Clean up all refuse and burn the stalks and other material likely to decay. Thoroughly sterilize the ground by the application of lime or deep, consistent trenching.

12. There are a number of popular perennials which force well. Clumps of coreopsis, bleeding heart, Shasta daisy, dicentra, etc., may be lifted, potted, and then stored outside to ripen properly before forcing. 13. Celery must be kept banked properly to protect the hearts of the plants from damage by severe frost. In fact, it can be stored in trenches any trenches any trenches any the control of the control o

19. Standard roses are among the hardest garden subjects to protect. If strawed in they must have takes or they will become to pheavy stakes or they will become to pheavy. Laying the stems down and covering with earth is the best. 20. Freeslas, French grown French grown Freezing Freezing

26. Boxwood and other tender evergreens should have their winter protections applied now. Burlap covers that are supported so as not to come in actual contact with the plants are the best material for this.

DOWN in the medders back o' my barn they's a kinder swampy corner, all hummocky an' full o' ev'ry the hord frost holds off, 'Liza goes down there ev'ry few days an' picks a pitcherful, but we never gets tired of 'em. They's so durned purty an' blue—same as the sky; an' they's a pitcherful, but we never gets tired of 'em. They's so durned purty an' blue—same as the sky; an' they's about the last o' the year's wild flowers, too, 'cep' a stray wilet here an' there. Then late willts is the blue kind, if yell notice—ly reckon that's the November wild flower color, somehow, same as they's others for the other seasons. In the syring it's white an' yaller, pink an' light blue, mostly, like the weather. Then as the sup gets hotter the colors change an' come stronger an' deeper, 'It'd along in Lugary ye see the scorchin' red o' the asters, the browns o' the grass an' kaves, an' fin'll a patch o' blue at the very end. Blue a good can' me—soft an' restful like an' cool. But they ain't no blue quite as good as them little fringed gentians down in my swamp medder, with the rusty dead grass all 'round an' the day green celars along the fence.

—Old Doc Lemmon.

SATURDAY

7. It is perfectly sale to
plant asyaragus in the fall
provided you
make some effort to protect
it during the
winter. Pull
plonty of earth
up over the
prover the
coverthem well
with decayed
manure. 8 The straw-berry be d should be mulched with well - rotted manure; this not only protects the plants but prevents the deterioration of the soil Straw to protect them from the sun should be added

14. Goose-berries, cur-rants, raspber-ries and black-berries are sur-face rooters. A heavy winter mulch of man-ure will build up the fertility of the soil and help to protect the roots from damage by the frost



Liming the garden in the fall will im-prove the produc-tiveness of the soil



Dead vines from the vegetable garden may be added to the compost heap



When the bulbs are be brought into the



well developed bulb with the roots spread, ready to force for winter bloom indoors



A good bonfire of the odds-and-ends such as cornstalks, dead branches, etc., is a great help toward general garden cleanliness and insect pest control



Burlap covers should be placed over the boxwood as winter protection. These bushes are not really hardy north of New York



Succession plantings beans are now in order in the greenhouse. Plant in rows 2' apart

# THE LAST RITES for THIS YEAR'S GARDEN

Putting on the Winter Mulch, Cleaning Up the Odds and Ends, and Generally Preparing the Grounds and Planting Plots for Freezing Weather



and which will give him many good pointers for the more artificial work to be done at home. Hardly a move that Nature makes in swamp, field, woods or by the roadside that does not hold a kernel of information for the open eye. And that, of course, is the only kind of an eye for a good gardener to carry about with him!

There is, however, one thing in which the gardener can make a decided improvement on Nature's methods: that is, in the matter of garden sanitation. For the old Dame herself does not worry much about insects and diseases, trusting rather to the survival of the fittest to keep things going. What the gardener may think the fittest from his point of view, however, is often the vegetable or flower which proves especially susceptible to injury from these sources. Therefore, if he would succeed with them, artificial assistance is necessaryand cleanliness has proved as desirable in the garden as it is in the home. The great majority of insect and disease troubles are carried



greens, much of the breakage caused by snow can be avoided by tvine

rye straw tied about tender roses will protect them from winter injury

WHEN every frosty morn-ing finds fewer leaves clinging to the already barren looking trees, and fewer of the garden's last lingering flowers, it may seem to the uninitiated that Nature has about com-pleted her year's work; that things are drawing to a close and that there is little or nothing more doing.

But "things are not what they seem." For every leaf that drops, you will find, if you look closely, a new bud dwelling under the little brown overcoat that will protect it through the winter. And down under the fallen leaves that have blown about and caught in masses among the dead stalks of the biennials and perennials, and in every nook and hollow in woods and swamp, you will find old roots or little seedlings a few weeks old, or bulbous plants such as Jack-in-the-pulpit or Solomon's Seal and the tropical looking "skunk cabbage," tucked away safely for the winter. Every hedgerow and field is full at this season not only of interest but also of information; of lessons which the wideawake gardener can hardly help taking to heart,





Evergreen bough as a winter protection for perennial beds or even shrubbery plantings can often be used. They should be placed on the south as well as the north sides, to prevent premature thaving

over from year to year in the form of dormant or hibernating life or in eggs or disease spores that find a lodging in the fallen leaves or the old stalks, flowers or fruits in the garden and scattered around the grounds.

One of the most important things to be attended to, therefore, in the final garden cleanup is to make a careful search for any traces of disease and for every possible hiding place for hibernating insects. suspicious material should be carefully gathered up and burned. One of the greatest mistakes that can be made is to use all the late garden refuse indiscriminately for the compost heap, as is often done. A general fall pruning, with such sanitation in view, will often prove a great help in controlling diseases of all kinds. It will not take long to go over the fruit and ornamental trees, shrubs and other woody growths, and cut out and burn all suspicious looking branches.

After the ground freezes the winter mulch of dead leaves, straw or well rotted barnyard manure should be applied to the perennial plantings.

Do not apply the mulch until the ground is frozen. Its purpose is to protect from sun, not cold

The winter ground mulch is a necessity for many shrubs to prevent alternate freezing and thawing

#### December

#### Twelfth Month



The interior and small branches of the peach trees should be thinned out



A thick covering of leaves will prevent frost getting into the



All nests of caterpillars and other harm-ful insects should be destroyed now

#### THE GARDENER'S CALENDAR

SUNDAY | MONDAY TUESDAY

I stood and watched by the window The noiseless work of the sky, And the sudden fluries of snowbirds Like brown leaves whirling by.

—Lowell.

7. Trees that are subject to scale insects of various kinds should be subject to some of the solution of the s

14. Asbestos torches, or torches mado of burlap and soaked in the second to go over all the trees and destroy wintern governests of caterpillars and other pests.

21. Melon frames, tomato ire lises, garden seats and other wooden garden material for the seat of the

28. Fruit trees, and especially small one, should be protected from rats, rabbits and other rodents. Or dimary tar paper wrappe estem from the stem from the

1. All tender evergreens that require that require though the standard to attended to atte 2. All the various types of bulbs for winter bloom may be seen and the green-house now. It is lest to bring the bulbs into the heat in smail quantities so as to keep a continuous supply of blossoms coming along.

9. Grape caues can be cleaned up and prume at any time a construction of the canes with a good strong soap insecticide or spray them with an oil spray to destroy larves, etc. S. All the graden tools and implements should be the constituted of th

16. Rhubarb may be forced in the cellar or attic of the dwelling by landing scope in barrels or toxes and placing them beside the furnace or chimney. The soil should be kept moderately moust.

22. Ferns, palms and other house plants should be top-dressed occasion ally with some other that plant foods sold for the purpose. Keep the surface of the soil lonsened so that no green seem forms. 23. The foliage of house plants must be kept free of insects. Sponging the leaves with a soad tobacco extract has been added will describe the scale, red spider, mealy bug and green fly.

30. M us hrooms may be
prown in any
ordinary cellar: the important point
is fresh staile
droppings for
the bed. Don't
let them ever
net really dry.
Then a ey cut,
as it is more
certain than
the old kind.

28. The planting of deciduous trees and shrubs may be continued just as long as the weather permits. Mulching heavily after planting will prevent the penutration of frost if it should come soon.

WEDNESDAY | THURSDAY

3 Hyacinths, Ohinese sacred lilies, paper, white narch, see the lilies, paper, and the lilies, paper, and lilies, paper, and lilies, paper, l

II. Frames in which somihardy plants are being wintered. Or term of the sound of the sound of the sound of the sound of coering. Loose hay may be used, but the best convering is jute mats. 10. If cold weather prevails it is well to look over the overstable to the frost is not getting in and injuring the roots. Plenty of leaves piled on top is the leet prote ction for the winter.

17. Nectarines, peaches and grapes which are forced by hich are forced by hich are forced by hich are forced by hich are forced by wishing them with strong insecticides. Remove some of the top soil afterward and replace it with fresh earth. 18. Plants that are growing in benches, such as carnations, roses. antirrhindme mulched with row man uro or soil made of top, soil and well-rotted manure with a little bone meal added.

25. The value of the land scaping departments maintained by the big nurser looked. They are propall sorts of plantings for you and submit fiscures of costs, etc.

24. Chicory is one of the best winter salad plants. It can be forced in any ordinating the roots in boxes and keeping them dark. They can also be grown outside in trenches filled with hot manure. SI. P o or lawns should be top-dressed, using a compost made of screened top soil with about 20 per cent and and should be sho FRIDAY

5. Do not neglect to provide for these friends of the gard effecting the provided free the provided where the birds will be out of the reach of cats. Suct tied to the branches is attractive to several species.

12. Look over the tender builts that are stored for the stored for the standard and the stored for the standard standard

19. Boxwood must be protected, elso it is very aft to winter-kill. Barlap covers, corustal ka, pine boughs or a ny material that will keep out admit air may be used for this purpose, Apply it low.

25, This is the time to plan and even install so me sort of frigating system in your garden, is summer for dry weather is just as sire as taxes and you had best be ready for it well in advance of its arrival.

This Calendar of the gardener's labors is aimed as a reminder for undertaking all his tasks about 1 is fitted to the latitude to the street of the street of

SATURDAY

6. Low spots in walks and drives that are invariably wet arised to shed water, or if the earth is taken out and the road bed filled with cinders it will help to make them dry and passable in bad weather.

13. Do not sorape the bark on trees to destroy insect pests—it is mpossible to gravices where insects hibernate, and in many cases the tree is injured the green outer bark. Use stiff brush.

Use stiff brush.

20. At this assess of the season of the

27. Vegeta-bles of all kinds that are stored in cei-lars should be looked over with the pur-pose of removing any de-cayed tubers there muy once will son cuses considerable damage to the rest.

To insure fertilisation



A spade is used to lift and divide the root clumps of various perennial flowers

PEARS to me like Chris' mas in the city must be a kinder gloomy time 'side o' what it is out here in the country. I hear as how they ain! no sleighs no more in the big town like N' York. Boston an' Chicago—anly autymobiles, an' subways, an' the like o' that. Shuck—what which with which sleigh-bids originin', at sown all white an' sparkly along the road, an' big received in the settin' room fireplace! Somehow I recken city folks must find it kinder hard to gild o' they mas y when all they can see out their winders is roves an' round so stome houses all just the same, with a dirty gray tisch, an' pacements all wel an' sloppy without even a foot o' dean mow with a roy to to deigh-ridin', or shatin' on the ice-pond, or sippin' down Kellog's Hill on a big techte-passenger bobiled, with somehody standin' at the Cerners to keep teams from turnin' in sudden from the side road usul as y ecome kitin' along. Yes, an' by crickey Chris' mas ain't the time to wear your best clo'es all day, neither; for a couple o' hours, anyway, ye wound to wear felt boots, an' a far cap with ear-muffs, an' a pas-jacket, an' are almitters and littles with wristlests to 'em —Old Doc Lemmon.

-Old Doc Lemmon.



Chicory is one of the few vegetables which can be grown under the greenhouse benches or in the cellar of the dwelling



Bulbs for indoor bloom should be forced in the dark for at least two weeks before bringing them into the light



The general rule is to save the dead leaves for mulching, etc., but if they must be burned, spread the ashes on the lawn



Tree planting may be continued late into the fall. Only solid freez-ing stops it



of greenhouse tomatoes the pollen is trans-ferred with a brush



#### THE CHARM OF OLD BOXWOOD

Boxwood has been called the aristocrat of shrubs. Certainly it has the mellow charm that one associates with an old aristocrat. We associate it with the old-jashioned garden. Today it is in constant demand for giving dark, low accents to a lawn or, as in this instance, for helping to reconstruct the atmosphere of a country resi-

dence in the Georgian style. Old boxwood commands the high price commensurate with its searcity, but into many gardens, where price is not considered, whole hedges and plantings of box are moved from old gardens. The box planting here is on the place of Mrs. J. W. Harriman, at Brooksville, L. I. Alfred C. Bossom, architect

# HOUSE & GARDEN'S GARDENING GUIDE



A Condensed Ready Reference for the Year on Culture and Selection of Vegetables, Flowers and Shrubs and for Planting, Spraying and Pruning



SHRUBS FOR EVERY PURPOSE								
SHRUB	COMMON NAML	HEIGHT	COLOR	SEASON OF BLOOM	DIRECTIONS			
For Masses and Borders								
Buddlesa Calycanchus Floridus Clethra Deutzia Exochorda grandiflora Forsythia Lonicera cartatica Philadelphus Prunus Rhus Rhus Surea Viter Viterunum Viter Uihurnum Viter Uirer Uirer Uirer Uirer Uirer Uirer Uirer	Butterfly shrub Strawberry shrub Strawberry shrub Sweet pepper bush Deutzia Pearl bush Golden Bell Tartarian Honevsuckle Mock-orange Flowering plum Sumach Flowering currant Bridal W. earh Snowball Chaste Tree Weigela	6'-8' 4'-6' 5'- ' 4'-6' 5'-6' 4' 5' 4' 6' 8'-10' 15' 1' 4'-6' 12' 6'-8'	Pink, lilac, violet Brown White White, pink White Yellow, White, pink, yellow, White Deep pink Whte Yellow White Hilac White Hilac White Hilac White Keld, white, pink	July to frost May July-Aug, June May-June April May-June May July-Aug, Arril-May May-June July-Sept, June-July	A new flowering shruh, but one ol the best; sunny position and fairly rich soil. Flowers are delightfully fragrant. One of the best of the smaller shruhs; very fragrant. Very free flowering; a great@avonte for grouping. Good for cutting; best effect obtained through massing with other shruhs; charming flowers. Large yellow flowers blossom before the leaves appear. Most striking when clumped; strong grower; free blossoming. Profuse bloomers; a valued and favorite shruh. Flowers of a heautiful shade. Sutted for damp places; brilliant in the fall. Fragrant; ince foliage, grows well even in moist spots. A shruh of exceptional gracefulness. There are many varieties; each has some good point. Gracetui; long spikes, flowers late in summer. Of robust shabit, blooms profusely, and easy growth.			
For Individual Specimens								
Althea Acer Japonica Aralia spinosa Baccharis Cercis Chionanthus Corous Rhus Cotinus	Rose of Sharon Japanese maple Angelica tree Groundsell tree Judas tree White fringe tree Dogwood Smoke tree	8'-12' Rose, white Foliage, various Foliage, various White Aug. Oct. 10' 12' White June 15'-20' White, red 12' Smoke colored Aug. Aug. Oct. 12' Rosy pink June May July			Among the best of tall shrubs; very hardy.  Leaves of many distinct shapes and attractive coloring, especially in early spring.  Unique tropical booking.  The property of the coloring of the			
				For Hedges an	d Screens			
Althea   Rose of Sharon   8'-12'   Rose, white   AugOct.				See above; plant close, 15" to 18".  Absolutely hardy; foliage light green, brilliant in autumn with scarlet berries.  Very attractive; many different forms, long lived. Colored fruits.  Color changes; very hardy, one of the best late flowering shrubs; enormous flower panicles.  Most popular formal hedge plant, plant close, 8" to 10"; prune to shape frequently. New varieties hardier than California.  Set 16" apart, makes a dense hedge, requires a little pruning.  Blant 19 to 2" apart, very graceful in formal hedge; especially for boundary lines.  Plant 2" to 3", very fragrant; good for along walls, etc. Japonica latest blooming.				
VINES								
VINE	COMMON NAME	FLOWERS			REMARKS			
Actinidia Akebia Ampelopsis Bignonia Clematis paniculata Evonymus Honeysuckle Wistaria	Silver vine Akebia Boston ivy Trumpet vine Virgin's Bower Evonymus Woodbine Wistaria	Whitish, with purple centers; A. Chinensis, yellow Violet brown; cinnamon center in spring Foliage highly colored in fall Very large trumpet shape; red or orange Fragrant pure white flowers in August and September of the property of the p			Very rapid growing with dense foliage; good for arbors, trellises, etc. Edible fruits after flowering.  Good where dense shade is not required; very graceful in habit.  Most popular of all vines for covering smooth surfaces such as brick and stone walls, etc. In setting out dormant plants prune back to 69".  Semi-climbing, especially good for covering rough stone work, tall stumps, porch trellises, etc.  Linique and attractive foliage.  Linique and attractive foliage.  Linique and attractive foliage.  Elimbine followed by feathery salisfactory late flowering vine. Especially good for porches.  Flowers followed by feathery silver seed pods.  Extremely hardry, good in place of English ivy in rold sections. Evergreen.  Old favorite: one of the most popular for porches and trailing covers. Sunny position; good variegated foliage.  Of twining, not clinique habit, especially good for pergolas, etc. Attains great height with suitable aupport. Sunny position, rich soil.			

#### SUMMER FLOWERING BULBS

FLOWER	HEIGHT	COLOR	SEASON OF BLOOM	DIRECTIONS
Anemone Begonia Calla  Canna Caladium Dahlia  Gladiolus Ranunculus Montbretia Tigridia Tuberose Zephyranthus	12"-18" 12"-18" 18"-24" 2' 6' 18"-5' 2'-6' 2'-5' 2'-4' 18" 2'-3' 8"-10"	White, crimson, pink, blue Pink, yellow, red Yellow, white Pink, yellow, red, white (Foliage) green or variegated White, pink, yellow, red, variegated Pink, red, white, yellow White, yellow, scarlet Red, yellow, scarlet Blue, pink, yellow, scarlet White White, Wellow, scarlet White, wellow, scarlet	July-Sept. June-Sept. June-Sept. June-Oct. June-Oct. July to frost May-June June-Oct. June-Oct. June-Sept. June-Sept.	Plant in May in sheltered position, in groups, about 6" x 6". Hardy. Start in heat, or plant in rich, light soil in open. Water freely. Plant suitable varieties in rich warm soil. Plenty of water; store for winter in warm temperature. Start in heat, or plant dormant roots in rich soil. Store for winter. Start in heat, or plant dormant roots in rich soil. Store for winter. Start in heat or outdoors after danger of frost, in deep, rich soil; thin and disbud for good bloome. Start in heat or outdoors after danger of frost, in deep, rich soil; thin and disbud for good bloome. Succession of plantings from April to June for continuous bloom; store cool for winter. Single and double forms; easily grown; good for cutrings. Culture similar to that of gladiolus. Plant 3" to 6" each way; take up or protect. Culture same as above but should be stored for winter. Plant out in May, or start in heat. June and July planting for late flowers. Good for masses or borders; plant two clumps, in early spring. Store like gladioli.

FLOWER	нысит	FLOWE	RS F(	VERY PLACE
			For Beds and Masses	59
Asters (A) Begonius (TP) Celosus (A) Celosus (A) Margold (A) Masurtone (P) Masurtone (A) Masurtone (A) Petron (A) Petron (A) Salvas (A) Salvas (A) Salvas (A) Salvas (A)	6, 33, 4, 4, 8, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6,	Warnous Where pink, red Where pink, red Where pink, red Meel yellow pink, red pink are yellow pink are yellow pink are yellow pink pink pink pink pink pink pink pink	Intr-Sept.  July-Sept.  August co frost  May-Sept.  May-Sept.  May-Sept.  May-Sept.  May-Sept.  May-Sept.  May-Sept.  May to frost  July to frost  July to frost  July to frost	Protect from aster beetle by hand picking and Paris green.  Very free and continuous flowering: husby, compare growth; good for edging. (P)  Very graceful and attent, good for backgrounds or massing against buildings, fenres, evergerens, etc. (P)  Colors a their curb do he full hant, good of free at a desaine.  Flowers they hand freetly exposed soul, takenut, VCI mentures  Exp. all found for new or from the color and the part of the matter of the form of the part of the
			For Edges and Borders	
Ageatum (A) Alysaum, Sweet (A) Bells gerenns (HHP) Mangold (Def. Str.) (A) Mysouth (Str.) (A) Linnia (Dwi. Str.) (A)	12" 6" -12" 6" 12" 9" 12" 12" 18"	Blue, white White, like White, pink, red O ange and yellow Blue, white Cturson, yellow and white	June to frost Apple July June to frost Apple July June to frost June to frost	Compact, upright growth, will not stread out over wall. (P or S) Tealing or spreading, very graceful a habite, [P or S]. Next, compact, etery; wonderful unbakie, [P or S]. Deart compact, etery; wonderful number of little daisoy-like flowers. (P) Wart for an animed varieties very effective for nations boaders. (P or S B). Next, upright, formal effect, of wall varieties, spected colors.
			For Shady Places	99
Antirchinum (P) Aquitogra (R) Aquitogra (R) Delphinum (HP) Dephinum (HP) Purantum (HP)	23.4". 36.7" 1127". 36.7 1127". 36.7 1127 36.7 1127 1127 1127 1127 1127 1127 1127 1127	White, reed, yellow White, reed, yellow Planc, blue, where Blues blues, blue, where Blues pink, burnel Blues pink, purple Blues, pink, purple White, yellow coange White, yellow coange Blue, where where the blues blues blues blues blues blues blues blues where the blues bl	InhSept. InhSept. Inne-July Inne-August Auri-July Auri-July Auri-July May-sept. May-sept. InhSept.	Select dwarf, medium or tall varieties as wanted, stake tall sorts loosely.  Giarchii, open hair of growth, five in combanatus with other things.  Giarchii, open hair of stated early in beat, soud crowding. (!)  Enimate in galend for bloom, stated in beat will bloom hat season (!p)  Enimate in galend for thome, surfaced in beat will bloom hat season (p)  Sea sh there would far notice; with surfaced me on white the hard.  Sea sh the more man and the state of the first one far stated on the most stated carly in heat. (!p)  Sea sh the stated is falled, but blooms more feely in sunshine.  Long season of blooms one of the most atteisteury of all, state early. (\$)  Franking, expressly here for corch hanging hadders, sorders
			For Curting	
Arreoris (4) Asters (4) Asters (4) Chrystarhenum (A) Chrystarhenum	1. 1. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.	Rich, various Various Valous (variate brown) Valous (variate brown) Valous (variate brown) Where or or or Where or or or Where, yellow orange Crimson, rose, purple, blue, rose White, black-purple, blue, rose White	June to front July-kept, July-kept, July-kept, July-kept, Auguer Organ Migher or front Migher or front Migh-Sept, July to front Auguer Sept, Auguer Sept, Auguer Sept,	Easily grown, give sumry situation, start in hear or outdons. (P or S)  Protect from bettel, alkabul for hinser flowers. (S or P)  Cive plancy of sum; keep dead lowers cut off. (S)  Set aboves the back for get hashly plants, (F or S B)  Set aboves start in their for the control of the sum of the
			For Fragrance (Cutting)	
Curaurea cower Sultan) (4) Heliotrope (Pyer Sultan) (7) Hopomere Curations (P) Mapomerer (17) Serval (TP) Sweet (TP) Sweet (Fest (A) Sweet (Fest (A)	24" 36" 12" 24" 36" 12" 24" 36" 12" 24" 24" 24" 24" 24" 24" 24" 24" 24" 2	Rose, Javender Purple, where Blue to where Where, vellow, pink, red Pale gold to olange Lavender, pink, vellow, pink, manye Boon tyellow)	June-Sept. May-Sept. May-Sept. May-Sept. July to frost June-Sept. July-Sept. July-Sept. July-Sept.	Make second sowing, favorire old "Sweet Sultan."  Shown selfy most figurant plants for stock. (P. S. B.)  Shown selfy messed part general stands selected selfors. (S. S. B.)  Free Hooming, one of the purest whether. (S. G. S. B.)  Free Hooming, one of the purest whether.  So of the purest whether and transplant wave to select double flowers only (P. or. S. B.)  Figure deep, wood over conding ware thanhalds they dull flower to select double flowers only (P. or. S. B.)  White rose or gave early in heat to get flowers first season. [P.]
			For Climbing	
Canarybud Vine A) Canarybud Vine A) Dolukos (Hyannih Bean) (TA) Moonflower (TA) Moranneglory (TA) Nasturtuni (A)	10, 80, 10, 10, 10, 10, 10, 10, 10, 10, 10, 1	Canary yellow Scarler White, white White, blue Maked Cinsson, matoon, orange, white, rose	June to frost July to frost Mid-July to frost Angust to frost June to frost June to frost .	Fringed, bright yellow flowers, very unique, rapid grower. (P or S)  New rapid grower, unparalleled for belighten debyke took or file seeds. (P or S)  Fasil, grown, very free flowering; good for servening. (S)  Unique and fingatient, some new good variettes, start early for best results. (P or S)  Old favorite but greatly improved, four overing fences, subbish heaps, etc., as well as climbing.  Ne above. Use self-colors for most striking effects
"A" annual, "B" bienmal,	"P" perennal, "HP," "	"A" annual, "B" bu mual, "P" percennal, "HP," "HHP," and "TP" mean respectively hardy percennal, half hardy percennal, and tender percennal	ardy perennal, half hardy perennial, am	bander some and

Absorb Review, mater, extended the Mrs seam, and flower and send the remaining the material by state places. The control of them flower the same year, like annuals the Mrs seam, and flower and send the Mrs seam, and flower and send the Mrs seam. The seam was the manage of the manag

# SUPPLY A CONTINUOUS FOR VEGETABLES

DIRECTIONS	In diverse and available; over first planning 1," dep.  "In diverse and available; over first planning 1," dep. "In diverse and available; over first planning 1," dep. "In diverse and available; over first planning 1," dep. "The planning the planting in the hills; thut to best two plants. "Ever planning stallow, about 5," dep. and ever the plants. "In dry wather, possible that with like thut to best two plants. "In dry wather, planting stallow, about 5," dep. and ever the planting stallow, about 5," dep. and the world. [reflict on proof earlier, the planting stallow, about 5," dep. and the matter first planting the planting the stallow and particles and the stallow and the stallow and particles and the stallow and the stallow and particles and the stallow and particles are stall stallow and the stallow and particles and stallow and th	Thin our early, for fall plant again July 15 or August 15.  Thin our early, for fall plant again July 15 or August 15.  Thin our early, for fall plant again July 15 or August 15.  San as for musk melousts pure bout type of tunners at 5 or 6.  San as for musk melousts pure bout type of tunners at 5 or 6.  Gove warm, cited and, narrate of soda, do not thin until well llong.  Mark and fall inners up to neck.  Note the certain considerable to take bout give plent of water.  Soft recedings and transplant to rate bout give plent of water.  Soft recedings and transplant to rate bout give plent of water.  Soft recedings and transplant to rate bout give plent of water.  Soft recedings and transplant to rate bout give plent of water.  Soft recedings and the plant of the plent of the p	Be con Son Son Son Son Son Son Son Son Son S
AMOUNT OR NUMBER FOR 50' ROW		22.28.27.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2	150 × 150 ×
SUCCESSIVE PLANTINGS Weeks Apart	2001 120	3: 8 May 29 15 15 15 15 15 15 15 15 15 15 15 15 15	4: to July 1 4: to Sept. 1 June 15
FIRST	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	Man 100 P P P P P P P P P P P P P P P P P P	May 1 April 10 April 1 May 15 April 10 May 15 May 1 P
REPRESENTATIVE VARIETY	Barle Beuntife, Benefich Benefich Benefich Benefich Benefich Closer Benefich Benefich Benefich State Head Daniel Salle Head Country Gentleran Country Gentleran Country Gentleran Barton Country	Big Boreon Big Boreon Big Boreon Herdieson's Bash Halburt Honey White Velver Vellow Darvers Granner Ghelaltar Englanner Ghelaltar Englanner Ghelaltar Granner Ghelaltar Ghelalta	Golden Necklare Sandwich Hand Voctorie Golden Summer Crookneck Hubbar Lixellin Bonnie Best (Chalk's Jewel) Stone
VEGETABLE AND TYPE	Bean hashly, Gyven Pold Bean, hashly, Gyven Pold Bean, bushly Lima Bean, polds, Lima Bean, polds, Lima Beets, Ex, Exily Beets, Lix, Exily Cabbase, summ of water Carross, Ex, Exily Carbase, summ of Carbase, summ of Carbase, lix, Exily Carross, Ex, Exily Carross, Ex, Exily Carross, Lany Conn, man croip Carross, Lany Conn, man croip Carross, Lany Conn, man croip Carross, language Carross, language Carross, language Conn, man croip Carross, language Carross, languag	Lettere, "Juster Head, 10r spring Lettered" Melons, water Melons, water Melons, water Ohions, water Ohions, seee".  Ohions, seee".  Ohions, seee".  Ohions, seee "Melons, water Ohions, seee".  Ohions, seee "Melons, seee".  Ohions, seee "Melons, seee".  Ohions, seee "Melons, seee".  Paraley amont maked Feas, smok maked Feas, smok maked Feas, sundivention of Perpets, smok maked Feas, smok interest funted Perpets, smok interest for the Melons of Perpets, smok interest for the Melons of	Ruchaga Sakity Sprat, h Sprat, wmrer Squash, wmrer Swass chard Tonaco, man viop



# NOTES ON VEGETABLES

"P" - plants from frames or seed-beds.

First figure under Directions indicates datance between roas, second between plans in row after thinning, or between hills and bulk, are continuous rows, in which the seeds are sown near rogetter, and the plants even after thinning stand at irregular distances, coching

Ross have the plants at regular distances, but so near together that machine cultivation is atten pred only between the rows.

Hills, which are usually especially enteched before planting, are isolated groups or clusters of plants, generally about equidistant—30 or more each way.

Tearning, sonsity in pulling out the surplus veedlings as soon as most of the seeds are up.

Hillings's drawing the sool up toward the roots or stems, often o, endone—usually, a wide, wheth is the beet,

Blan. Ing. is no essary to prepare some plants such as celety and endive, for eating, excluding the light, banking with earth, tying up the leaves, covering with prepared paper, and storing accomplish this result.



S PRAYING
EQUIPMENT
for the WAR
on INSECT
P E S T S



In communities where fruit trees are pleutiful it is often feasible for a number of owners to unite in purchasing a large pouer sprayer whose original cost, mainte nance and services can be shared by all. Courtesy of Bateman Mfg, Co.



(Right) A knapsack sprayer in use. Its zeeght is supported by a broad shoulder strap, leaving the hands free to operate the nozzle. Only occasional pumpmg is needed to maintain the air pressure



A pump sprayer to be attached to a barrel containing the insecticide A simple agituing device keeps the liquid well mxed. Courtesy D. B. Smith & Co.



(Above) The compressed air knapsack sprayer,
which is pumped
up by means of
the central handle,
is the best type of
small apparatus
Several good
makes are on the
market



The pump sprayer above is designed to be used with a pail of liquid. The two tubes go inside the pail and an out side foot piece holds them in place while oper alting. Courtesy D. B. Smith & Co.

A man-power device used for orchard work where
considerable spraying is to be done
It can be mounted
on an ordinary
farm wagon
Courtesy Bateman
Mig. Co.

# THE PESTS AS THEY APPEAR

INSECT OR DISEASE	Identification	WHEN TO LOOK FOR	ATTACKS	CONTROL	
		IN THE VEGETABLE GAR		CONTROL	
	I				
Cut-worms  Aphis or "plant louse"  Potato beetle Fiea beetle White grub  Root maggot  Corn borer  Cucumber beetle Squash bug ("stink" bug)  White fly  Thrip  Asparagus beetle Melon louse Onion thrip	Sluggish, fat, brown soil worm, %" to 2" long with stripe along side; works at night.  Small, green or black, soft bodied flies about 1/2" long, congregating in large numbers.  Common striped beetle or bug ½" long.  Minute, black, active jumping beetle.  Large, soft, white, repulsive grub or worm, feeding on roots under ground; ½" to 1/4" long.  Small white worm or grub ½" to ½" long.  White, smooth borer, 1" to 1½" long. Second brood in early fall.  Small, very active, black and yellow striped beetle, ½" or so long.  Duil black, fat, very active beetle with strength of the sold of the s	cutting off young plants and seed- lings. Dig around cut-off plant. Throughout season, especially on half- grown plants and in dry weather on Through season, first on earliest sprout- ing potatoes; three broods. Mostly in May and June on seedlings; leaves punctured. Through season, especially numerous in newly plowed sod ground and moist Through season; first indication wilting of plants without apparent cause.  Moths appear in May, caterpillars soon after. Through season, especially as vines he- gin to run, and in dry weather. Usually appears first late in June, re- maining until cold weather. Young hatched from brown eggs on under side of leaves; resemble large aphs. Through warm season, especially under alent in frame-wide conditions; prev- alent in frame-wide conditions; prev- alent in frame-wide conditions; June-Aug., especially on neg- lected or backward plants. June-Aug., especially on new growth. Throughout season, especially June to Au- gust; onion toos twisted and eurled.	Cabbage, cauliflower, lettuce, peas, etc.  Potatoes, egg -plants, tomatoes.  Potatoes, tomato, cabbage group, turnips.  Strawberries especially; also corn, potatoes, etc.  Onions, cabbage, cau.	young plants and sprinkle with tobacco dust. Trap old bug under shingles and destroy; spr- young with nicotine or kerosene emulsion; scre- young plants.	
Tomato worm Rust Mildew Blight Leaf spot or rot	cially down between leaves. Large, green horned worm, often several inches long. "Rusting" or yellowing of foliage or stalks. Whitish coating or spotting of the foliage, spreading rapidly. Usually a yellowing or spotting of the leaves, progressing very rapidly. Spots in leaves, stems, or fruit turning brown or black.	permaturely yellow. From mid-summer to early fall; strips foliage clean, conspicuous inroads. Through season, especially late June to August. Favoring conditions same as for blight; also crowded foliage. The weather and low, closed places. Throughout season, especially in warm weather after rainy spells.	Tomato and tobacco mostly. Various vegetables, especially celery, beans, asparagus. Cucumbers, melons, lima beans, etc. Potatoes, beans, celery, cucumber, etc. Tomatoes, beans and many others.	Arsenate of lead; hand picking into can or pa and late fall plowing. Avoid working when foliage is wet; successi spraying with Bordeaux. On maturing cele use ammoniacal solution of copper carbonate. Spray with Bordeaux every week or ten days. Spray with Bordeaux at or before first signs as repeat frequently to keep all growth covered. Bordeaux mixture, removing surplus foliage, ar in the case of fruits that touch.	
		IN THE FRUIT GARDEN			
Scale, San José	gray scurvy appearance of bark, and	Throughout season; multiplies with extraordinary rapidity.	Apple and other fruit trees.	Dormant sprays in early spring or fall, using lin sulphur, miscible oil or kerosene emulsion.	
Scale, oyster shell Apple aphis	minute red runmed spots on fruit.  Dark brown scale like elongated oyster shell about 1/8" in length, the young resembling active whitish lice.  Bright green aphs.	Throughout season, young hatching in May or early June.	Apple and other fruit	Same as for San José; also nicotine or kerosei emulsion as soon as young hatch.  Dormant spray before leaves come out; nicotin	
Scab, apple	Causes dark colored spots on leaves or fruit.	Throughout season, especially on the sides of new leaves.  Throughout season, spreads most during spring.	Apples, peaches, plums. Apple and pear.	spray on young foliage.  Spray with lime sulphur before blossoms operafter blossoms fall, and two weeks later; but the sulphur before blossoms fall, and two weeks later; but the sulphur before blossoms operations of the sulphur before blossoms operations.	
3ud moth Currant worm Coddling moth Canker worm Slister mite Curculio	Striped caterpillars in large masses in webs or "tents."  Light brown caterpillar, head and legs dark.  The "mother" of wormy apples; moth is small and chocolate colored; worm hatches on the outside, usually in blossom end, and c.at. sin; about 1." long A "measuring worm," 1" or more in length.  Suall mite causing leaf blisters turning from light green to red and brown from length. long. Back mottled black and white; has a conspicuous "snout."  Small, slim, yellowish hoppers with blunt heads.  Fruits turn purplish brown and become shriveled	turning brown and drying up; "hop- pers" working on the under side.	Apple, cherry, and other trees.  Especially apple buds.  Currant and goose-berry, Apple.  Pear and apple.  Injures young fruits by puncturing them to eat and lay eggs; apples, peach, plum.  Apple and grapes.  Grapes.	Destress any muses in winter; wipe out tents soon as wishle with kerosene snudge in sprit Arsenate of lead spray for matured worms. Arsenate of lead when leaves appear, before bu open.  Spray with arsenate of lead until fruit form after that, hellebore.  Spray with arsenate of lead until fruit form after that, hellebore.  Spray with arsenate of lead until fruit form after that, hellebore.  Spray with arsenate of lead ust before petals fa about four weeks; band trunks during July.  Arsenate of lead, when worms appear; band trun in March or early April.  Strong miscible oil or kerosene emulsion spra Just before leaves come out and again in fall.  Spray with lime sulphur and strong arsenate limits and the sulphur and strong arsenate limits and the sulphur and strong kerose emulsion.  Spray under side of leaves with strong kerose emulsion.  Spray with Bordeaux till mid-July; then ammo seal solution copper carbonate; for few vin bunches may be covered with paper bags; de mant spray with lime sulphur or miscible of gather fallen fruit and burn.	
IN THE FLOWER GARDEN					
phis (plant	Similar to those attacking vegetables	See aphis above. Where foliage is thick,	Roses, sweet peas and	Nicotine spray; kerosene emulsion.	
louse)	described above.  Small, soft-bodied insect covered with small cotton-like specks.	in axils of leaves or growing tips.  Congregate in leaf axils throughout season; most likely on neglected plants in frames or on porches.  Throughout season especially May to	m ost soft-wooded plants. Soft-wooded plants and new growth on so me hard-wooded plants such as fuchsuas Roses mostly.	Nicotine spray or paint with strong kerosene em sion, alcohol.  Arsenate of lead or Paris green extra strong; ha	
eaf spot; rust Iildew	Yellowish, active, crawling beetle ½" or more long with long hooked lega.  See above Powdery, dirty white deposit on leaves. Active, long-legged beetle, ½" to ¾" in length, eating flowers and foliage.	Throughout season, especially may to July, when plants are in bloom.  Through season, especially after sudden changes in temperature.  Appears in numbers, August and September.	Asters, carnations, etc. Roses and some others Asters preferably, and some other flowers.	spicking into kerosene and water most effective properties. Spray with Bordeaux. Keep new growth covered prune infected parts; dust with flowers of sphur; thin sufficiently for free circulation of a Strong arsenate of lead spray; knock bugs in earnorming into can of kerosene and water.	



# FALL PLANTING TABLE

The questions of what, where and how to fall plant puzzle many home gardeners. Here they are answered briefly and without unessential verbiage. Let the following table be the basis of your flower and skrub planting this fall



	Name	BLOOMS	Неіснт	Colors	Remarns
HARBY PERINKIALS	Aquileg'a Aconitum Anchusa Anemones Carex (Sedge) Chrysanthemuns. Dicentra Dictamnus Delphinlum Ferns Foxgloves Hardy grasses. Hardy grasses. Hardy grasses. Helbiscus Helhanthus Iris Peonies Perennial poppies. Primroses Phlox Rudbeckia Saxifraga Shasta daissy.	May June June—Sept. May June Sept.—Oct May—June Sept.—Nov. May—June May—July June—Sept. May—Oct. June July May—Oct. May—July June July Sept. May—July June July Sept. May—July June—Sept. June—Sept. April—May June—Aug. July—Aug. April—May June—Aug. April—May April—May April—May April—May April—May April—May April—May April—Sept.	1 - 2½ 2 - 4 2 - 3	Yellow, red Blue Blue Blues White, rose Foliage White, maroon, yellow Pink, white. Blue Foliage White, murple, lilac Foliage White, purple, lilac Crimson, white. Pink, white. Orange, yellow Blue, lavender, yellow Red, white. Red, white. Red, white. Yellow, orange Pink, red, white. Yellow, orange Pink, white. White, White.	Aquilegia. Graceful and airy, especially valuable in mixed border. Aconitum. One of the best for shady and semi-shady positions. Anchusa. The new varieties are great improvements. Give full sam. Anemones. Beautful flowers, lasting until hard frost. Good for cutting. Carex (Sedge). Good for marshy places or wet spots. Chrysanthemums. Most important of the late fall flowers. Dicentra. Old favorite, thriving in either shade or sun. Dictamnus. Showy for the mixed border: give rich soil and sun. Delphinium. Indispensable for background in the mixed border. Ferns. Good for shady positions, especially massed around the house. Foxglove. For backgrounds in the mixed border. Dominate whole garden. Hardy grasses. Should be used freely both by themselves and in mixed border. Hardy pinks. Old favorite. Among the easiest to grow of border plants. Helianthus. Desirable for shrubbery planting and in clumps. Newer varieties. Heilanthus. Desirable for shrubbery planting and in clumps. Newer varieties. Peonies. Strong soil and sun or partial shade. Cover crown 2" deep. Perenntal poppies. "Iceland" bloom all season; "Orientall" in May and June. Primroses. Good for half shady position and rockeries. Rich soil. Phots. Select for succession of bloom and rockeries. Rich soil. Phots. Select for succession of bloom and prover three or four years. Rudbeckia. Hardy, robust; spreads by itself; excellent for screening. Saxifaga. Very hardy; thrives everywhere; good for bordering shrubbery. Shasta daisy. The popular original has been improved in later varieties
and the second s	Shasta daisv Spirea Spirea Stokesia Sweet William Salvia Trillium Veronica Vinca Violets	June—Sept.  May—June July—Aug. June—Sept. June—Oct. May June June—Aug. April—Nov. April—May	3 5 1½ 2 1½ 2 1½ 3 6 1½ 4 1½ 4 1½ 4	White, pink. Blue, white. Pink, white. Blue, red. Red. white. Blue, white. Foliage Blue, white.	Spirca. Prefers semi-shade and moist soil; good for borders; permanent. Stokesia. Good for masses and beds in sunny positions; very hardy. Sweet William. Extremely hardy and permanent, fine for cutting. Salvia. Prefer moist and semi-shaded positions; several new varieties. Trillium. Good for moist, shady positions in the hardy border. Veronica. Long spikes of flowers; extremely effective in mixed border. Vinca. Good as ground cover in shady position and under shrubs Violets. A generous number should be included in every mixed border.
SHRTBS	Berberis Deutzia Lilac (Syringa) Hydrangea Forsythia Japanese maples. Rhus Spirea Althea Viburnum Weigela	April Nov.  May -July  May June June Sept.  April May  May—Oct.  July  May June Aug Oct.  May June Aug June  June—Aug.	15 15 20 12 -15	Foliage Pink, white. White, lilac. White, pink. Yellow Colored foliage Foliage White, pink. White, pink. White, red. White Pink, white.	Berberis. Best general plant for informal hedges; color in autumn. Deutzia. Very hardy, permanent, and free-flowering; any soil; full sun. Lilac. Tall hedges, screens, and individual specimens. Hydrangea. Lawn specumens, hedge terminals, screening hedges. Forsythia. Single specimens and in mixed border. Best early shrub. Japanese maples. Invaluable alone on the large or small lawn. Rhus. Unique and effective. Good background shrub. Spirea. Invaluable in the mixed border; also isolated. Many varieties. Althea. Tall hedges and single specimens. Very hardy. Viburnum. Hardy and effective. Flowers followed by white or scarlet berries Weigela. Extremely pretty and free-flowering. Graceful single specimens.
BULES	Tulips Narcissus Jonquils Hyacinths Lilies Snowdrops Scillas Crocus Spanish Iris Grape Hvacinth Anemones Allium Chionodoxa	Plant—Inches Apart Deep 4 8 4 6 (-12 5 7 ( 8 4 6 6 (10 5 7 12 24 6 10 2 4 3 4 2 4 2 4 2 4 3 4 2 3 3 4 0 3 6 2 4 3 6 2 4	1 + 3 1 2 1 + 1½ 1 - 1½ 2 - 6 ½ ½ ½ 1 - 2 ½ 1 - 2	Pink, purple, white White, yellow Yellow Blue, white, pink White, red, yellow White Blue, white, yellow Blue, white, yellow Blue, white Blue, white. Blue, white. Blue, white. Blue, white. Blue, white. Salve, white. Salve, white. Salve, blue Blue, blue Blue, blue	Tulips. Most effective in long borders and in front of shrubs, Narcissus. N. poeticus and N. P. ornatus good for naturalizing, Jonquiis. For the maxed border and for cutting. Plant early Hyacinths. Best for formal and design bedding. Mass in variety. Lilies. Plant soon as received. Succession of bloom throughout summer. Snowdrops. Earliest flowering; naturalize in open woods or in rockery. Scillas. Under trees or on shady lawn; will stand close mowing. Crocus. Brightest of the early spring blooming bulbs. Naturalize. Spanish Iris. Prefer a light, frisble soil; good for the mixed border. Grape Hyacinths. "Heavenly Blue" the best variety; plant in groups. Anemones. Prefer well-drained, sheltered position; good for rockery. Allium. Naturalize where grass does not have to be cut and in borders. Chionodoxa. Prettiest of the early blue spring flowers; naturalize in grass.

#### FALL PLANTING INSTRUCTIONS

For the details of fall planting, turn to various other pages in this book. Be sure that the plants are in a healthy condition. Plants set out in the fall in a dormant or semi-dorman date do not power indence of infestation. Buy wood should be firm and hard in the case of trees, shruls and email fruits, and the season's period of flowering over in the case of perennials. Set out immediately upon arrival.

Any ordinary good soil will answer for most plants. Avoid extremes of sand or clay. Thorough drainage is essential. Heavy soils will be bruefited by an addition of coarse sand, gravel, coal ash, or broken brick. Lime is good for both extremely heavy and light soils; it should be used with discretion.

The amount of soil preparation will depend on the quality of

The amount of soil preparation will depend on the quality of the soil and the culture it has received a year or two pre-

vious. Add rotted manure and ground bone where plant food is necessary. Before planting see that all roots are in proper condition. Cut off broken or straggly roots. Prepare holes for shrubs and put in plant food. Keep roots moist. Most perennials that form in clumps or crowns should be set out so that the tops are bond to the strain of the tops are bond to the strain of the tops are bond to the strain of the strain is until frozen, apply uniter mulch. This protects plants from weight of snow and brevents premature root growth. Use fine, dry manure, marsh hay, dry stable litter or leaves. A depth of 3" to 5" is sufficient,

Of the larger fruits, applies and pears may be set out now, but cherries, peaches and plums should be left until spring. Of the small fruits, raspherries, blackberries, gooseberries and currants may be set out to advantage this fall.

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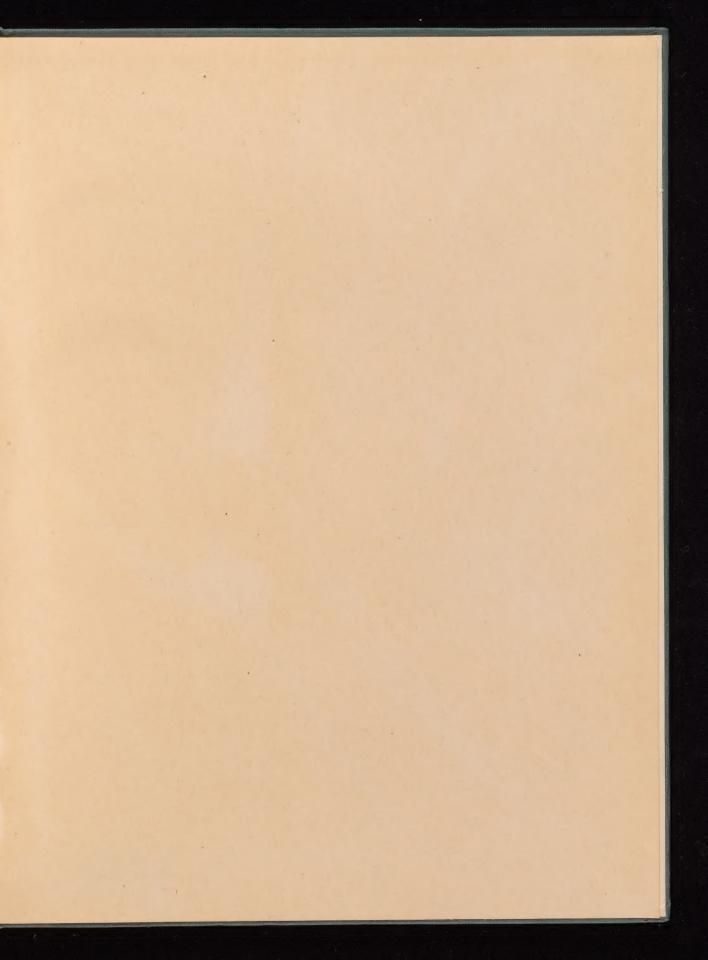
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- American Peony Society, A. P. Saunders, Sec'y., Clinton, N. Y.
- American Rose Society, J. C. Wister, Sec'y., 606 Finance Bldg., Philadelphia, Pa.

- American Sweet Pea Society, William Gray, Sec'y., Bellevue Ave., Newport, R. I.
- Chrysanthemum Society of America, C. W. Johnson, Sec'y., 141 Summit St., Rockford, Ill.
- The American Forestry Association, 1410 H St., N. W., Washington, D. C.
- The Garden Club of America, Mrs. S. Sloan, Acting Pres., 45 E. 53rd St., New York City.
- The Women's National Farm & Garden Association, Mrs. Francis King, Pres., 414 Madison Ave., New York City.





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